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MIDDLEBURY COLLEGE BULLETIN

THE CATALOGUE

1913-1914

MIDDLEBURY, VERMONT

PUBLISHED BY THE COLLEGE

SEPTEMBER, OCTOBER, NOVEMBER, DECEMBER
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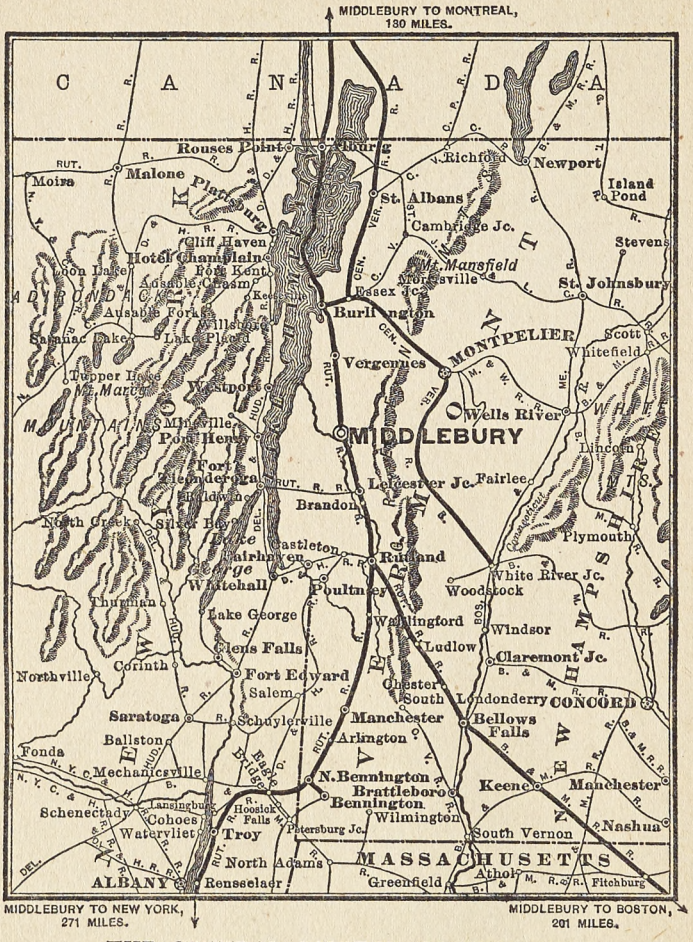

THE CENTRAL COLLEGE OF VERMONT

Equi-distant from the Northern and Southern Boundaries.
Halfway between Vermont's Largest Cities.
On New York Central Lines (Rutland Railroad).
Four through trains daily each way between New York and Boston and Montreal.
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A Catalogue of

Middlebury College

Middlebury, Vermont

One Hundred and Fourteenth Year

1913-1914

Published for the College

1913

CORLIES, MACY & CO. INC., NEW YORK

CHARTER

OF MIDDLEBURY COLLEGE

STATE OF VERMONT

Isaac Tichenor Esquire Governor and Commander in Chief in, and over the State of Vermont. To all to whom these Presents shall come Greeting.

KNOW YE, That I the said Isaac Tichenor by virtue of Authority, in me vested, and in pursuance of a certain Act of the Legislature of said State passed the first day of November in the Year of our Lord eighteen hundred, entitled An Act incorporating and establishing a College at Middlebury in the County of Addison—do, by these Presents will, ordain, and grant, that there be, and there hereby is granted, instituted, and established, a College in the Town of Middlebury in the County of Addison in said State;—and that Messrs Jeremiah Atwater, Nathaniel Chipman, Heman Ball, Elijah Payne, Gamaliel Painter, Israel Smith, Stephen R. Bradley, Seth Storrs, Stephen Jacob, Daniel Chipman, Lot Hall, Aaron Leeland, Gershom C. Lyman, Samuel Miller, Jedediah P. Buckingham, and Darius Matthews, shall be an incorporate Society, or Body corporate and politic, and shall hereafter be called and known by the Name of the PRESIDENT AND FELLOWS OF MIDDLEBURY COLLEGE—and that by the same name they and their successors shall, and may have perpetual succession; and shall and may be persons capable in Law to be im-

pleaded, defend, and be defended; answer and be answered unto; and also to have, take, possess, acquire, purchase, or otherwise receive Lands, tenements, hereditaments, goods, chattels, or estate; to grant, demise, lease, use, manage, or improve for the good and benefit of the said College according to the tenor of the donations.—

And that the President and Fellows, and their successors shall and may hereafter have a common seal, to serve and use for all causes, matters, and affairs of theirs, and their successors, and the same seal to alter, break, and make anew, as they shall think fit.— And I the said Isaac Tichenor do by these presents further will, ordain, constitute, and appoint that the said Jeremiah Atwater be, and he hereby is established the present President; and the said Nathaniel Chipman, Heman Ball, Elijah Payne, Gamaliel Painter, Israel Smith, Stephen R. Bradley, Seth Storrs, Stephen Jacob, Daniel Chipman, Lot Hall, Aaron Leeland, Gershom C. Lyman, Samuel Miller, Jedediah P. Buckingham, and Darius Matthews, shall be, and they are hereby established the present Fellows of the said College; and that they and their successors shall continue in their respective places during life, or until they, or either of them, shall resign, be removed, or displaced, as is herein after expressed.—

And I the said Isaac Tichenor do further will, ordain, and grant that there shall be a general meeting of the President and Fellows of the said College, in the said College House, on the first Tuesday of November annually, or at any other time and place which they shall see cause to appoint, to consult, advise, and act, in and about the affairs

and business of said College; and that on any special emergency, the President and two of the Fellows, or any four of the fellows may appoint a meeting at the said College—Provided they give notice thereof to the rest by letters sent and left with them, or at the places of their respective abodes, ten days before such meeting, and that the President and six Fellows, or in case of the death, absence, or incapacity of the President, seven Fellows convened as aforesaid (in which case the eldest Fellow shall preside) shall be deemed a meeting of the President and Fellows of said College; and that in all the said Meetings a major vote of the members present shall be deemed the act of the whole, and when an equi-vote happens, the President shall have a casting vote— That the President and Fellows of the said College, and their successors, in any of their meetings assembled as aforesaid, may, from time, as occasion shall require, elect and appoint a President or Fellows, and also the same remove, from time to time, for any misdemeanor, unfaithfulness, default, or incapacity, six of the said Corporation, at least, concurring therein; and shall have power to appoint a scribe, or register, a treasurer, tutors, professors, steward, and butler, and such other officers, and servants as are usually appointed in Colleges and Universities, as they shall find necessary and think fit to appoint, for promoting good Literature, and well ordering and managing the affairs of said College; and them, or any of them, at their discretion, to remove— And to prescribe and administer such forms of Oaths, not being contrary to the Constitution and laws of this State, or of the United States, as they shall think proper to be administered, to all those

Officers and Instructors of the said College, or to such, and so many of them as they shall think proper, for the faithful execution of their respective places, offices, and trusts.—

And that the said President and Fellows shall have the government, care and management of the said College, and of all matters and affairs thereto belonging; and shall have power from time to time, as occasion may require, to make, ordain, and establish all such wholesome, and reasonable laws, rules, and ordinances, not repugnant to the Constitution, and Laws of this State, or the United States, as they shall think fit and proper, for the instruction and education of the Students, and ordering, governing, ruling, and managing the said College, and all matters, affairs and thing thereto belonging; and the same to repeal and alter as they shall think fit, which shall be laid before the LEGISLATURE of this State, as often as required, and may also be repealed or disallowed by the said LEGISLATURE when they shall think proper.—

And that the President of said College with the consent of the Fellows, shall have power to give and confer all such honors, degrees, or licenses, as are usually given in Colleges or Universities, upon such as they shall think worthy thereof.—

And I the said Isaac Tichenor do further will and grant that all the lands and ratable estate, that does, or shall belong to the said College, not exceeding the yearly value of Two Thousand Dollars, lying in this State; and the persons, families, and estates of the Presidents and Professors, lying and being in the Town of Middlebury, of the value of One Thousand Dollars, to each of said Officers,

and the persons of the Tutors, Students, and such and so many of the servants of said College as give their constant attendance on the business of it, shall be freed and exempted from all rates, taxes, military service, working at highways, or other such like duties and services.—

In Testimony whereof I have caused the Public seal of the State of Vermont to be hereunto affixed.

Done at Middlebury this first day of November in the Year of our Lord One Thousand eight hundred, and of the Independence of the United States the twenty fifth.

By His Excellency's Command

Ros. Hopkins

Secy of State ISAAC TICHENOR

BEQUESTS

The Corporate name of Middlebury College is THE PRESIDENT AND FELLOWS OF MIDDLEBURY COLLEGE. *Bequests should be made in this name.*

THE PRESIDENT AND FELLOWS OF MIDDLEBURY COLLEGE

Rev. John M. Thomas, d.d., ll.d., President	*Middlebury*
Hon. John W. Stewart, ll.d.	*Middlebury*
Hon. Joseph Battell, a.m.	*Middlebury*
Brainerd Kellogg, ll.d.	*Morristown, N. J.*
Ezra Brainerd, d.d., ll.d.	*Middlebury*
Hon. David K. Simonds, a.b.	*Manchester*
Erastus H. Phelps, a.m.	*Fair Haven*
Hon. John A. Mead, a.m., m.d., ll.d.	*Rutland*
Henry H. Vail, ll.d.	*New York, N. Y.*
George M. Wright, ll.d.	*New York, N. Y.*
Rev. James L. Barton, d.d., ll.d.	*Boston, Mass.*
M. Allen Starr, m.d., ph.d., ll.d.	*New York, N. Y.*
James M. Gifford, ll.d.	*New York, N. Y.*
Hon. John G. McCullough, ll.d.	*Bennington*
Julian W. Abernethy, ph.d.	*Burlington*
John A. Fletcher, a.b.	*Middlebury*
Rev. Rufus C. Flagg, d.d.	*Burlington*
Hon. A. Barton Hepburn, ll.d., d.c.l.	*New York, N. Y.*
Hon. John E. Weeks, a.m.	*Middlebury*
Hon. Frank C. Partridge, ll.d.	*Proctor*
William H. Porter, ll.d.	*New York, N. Y.*

John A. Fletcher
Secretary and Treasurer

Charles E. Pinney
Auditor

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President John M. Thomas
John W. Stewart
Ezra Brainerd
John A. Fletcher
John E. Weeks
Frank C. Partridge

FINANCE COMMITTEE

George M. Wright
William H. Porter
A. Barton Hepburn
James M. Gifford
Frank C. Partridge

BUILDING COMMITTEE

President John M. Thomas
Julian W. Abernethy
Henry H. Vail
John E. Weeks
Frank C. Partridge

THE FACULTY AND OFFICERS

JOHN MARTIN THOMAS, D.D., LL.D.
President

EZRA BRAINERD, D.D., LL.D.
President-emeritus

HENRY MARTYN SEELY, A.M., M.D.
Professor-emeritus of Natural History

CHARLES BAKER WRIGHT, A.M., L.H.D.
Professor of Rhetoric and English Literature, and Acting Dean

WILLIAM WESLEY MACGILTON, A.M.
Professor of Chemistry

MYRON REED SANFORD, A.M., L.H.D.
Professor of the Latin Language and Literature

ERNEST CALVIN BRYANT, S.B.*
Baldwin Professor of Physics

WILLIAM SARGENT BURRAGE, PH.D.
Professor of the Greek Language and Literature

EDWARD DAY COLLINS, PH.D.
Professor of Pedagogy

RAYMOND MCFARLAND, A.M.
Professor of Secondary Education

EVERETT SKILLINGS, A.M.
Professor of German

AVERY ELDORUS LAMBERT, PH.D.
Burr Professor of Natural History

ARCHIBALD DARIUS WETHERELL, A.M.
Assistant Professor of History

DUANE LEROY ROBINSON, A.M.
Assistant Professor of French, Levi P. Morton Foundation

*On leave of absence for the year.

G. Watts Cunningham, PH.D.
Assistant Professor of Philosophy

Frank William Cady, A.M., B.LITT. (Oxon)
Assistant Professor of English

Phelps Nash Swett, S.B.
Assistant Professor of Engineering

Raymond Henry White, A.M.
Assistant Professor of Latin

Chauncey Allan Lyford, B.S., A.M.
Assistant Professor of Geology

George Hoffman Cresse, A.M.
Assistant Professor of Mathematics

John Allen Morgan, A.M.
Assistant Professor of Political Economy

Ray Lyle Fisher, A.B.
Assistant Professor of Physical Education

George Porter Paine, A.M.
Assistant Professor of Mathematics

Perley Conant Voter, A.M.
Assistant Professor of Chemistry

Edward Royce, A.B.
Assistant Professor of Music

Vernon Charles Harrington, L.H.D.
Assistant Professor of English and Public Speaking

Arthur Franklin Barnes, B.S.
Assistant Professor of Engineering

Maurice Picard, A.M.
Assistant Professor of Botany

Charles Francis Abbott, A.M.
Assistant Professor of Government and Law

Wilfred Edward Davison, A.B.
Instructor in German

EDGAR JOLLS WILEY, B.S.
Assistant Dean

SUZANNE EVERETT THROOP, A.B.
Dean of Women, and Assistant Professor of Fine Arts

EFFIE PARMELEE WELLS, M.S.
Instructor in Home Economics

LAILA A. MCNEIL, A.B.
Librarian

BERTHA E. WOOD
Cataloguer

JENNIE HANNAH BRISTOL
Registrar

MURIEL A. VITTUM
Assistant Registrar

JOHN E. WEEKS
Superintendent of Buildings and Grounds

ETHEL F. BARTLETT
Secretary to the President

WILLIAM H. FARRELL, HENRY HOPKINS,
CHARLES JEWETT
Janitors

MRS. WILLIAM MILLS
Superintendent of Women's Dining Hall and Matron of Pearsons Hall and Battell Cottage

ADA E. BRISTOL
Matron of Hillside Cottage

FACULTY COMMITTEES

ADMINISTRATION

WRIGHT, MCGILTON, COLLINS, ROBINSON, WILEY

CURRICULUM

COLLINS, SANFORD, WETHERELL, LYFORD, HARRINGTON

ADMISSION

CADY, ROBINSON, WHITE, CRESSE, WILEY

GRADUATE WORK

SANFORD, LAMBERT, WHITE, PAINE, PICARD

LIBRARY

MCFARLAND, SKILLINGS, MORGAN, ABBOTT, MISS WELLS

ATHLETICS

WETHERELL, SWETT, FISHER, VOTER, BARNES

STUDENT LIFE

BURRAGE, MISS THROOP, CUNNINGHAM, ROYCE, WILEY

ADMISSION

PREPARATION FOR COLLEGE

IT is the desire of Middlebury College to relate its work to that of high schools and academies by offering admission, as far as possible, to students who have completed in a creditable manner a four years' course of study in a good secondary school. The College does not wish to dictate what studies shall be pursued in high school, and in the matter of admission credits will deal fairly with any subject which principals, teachers, and governing boards of secondary schools think most useful for their pupils. For certain courses, however, certain subjects are prerequisites to work of college grade, and these are specified in the following sections.

While no general counsel can take the place of the advice of a principal who knows the student, it may be said that thorough training in the use of good English is indispensable in any high school course. Algebra, Geometry, and at least one foreign language are essential to a preparatory scientific course. A preparatory classical course must contain Latin, and may well include Greek. Although Greek may be begun in College, the loss to the student who does not offer it for admission is greater than is often imagined, and the student who would devote special attention to literature, history, or philosophy is advised to fit himself in the language which is at the root of all modern culture.

METHODS OF ADMISSION

ADMISSION to College may be gained by either of two methods:

1. By Certificate:
   a. Students in New England from schools upon the approved list of the New England College Entrance Certificate Board will be admitted on certificate. No total certification for less than seven points will be considered, but the seven points need not all be from one school. Blank certificates will be mailed to principals upon application.
   b. Students outside of New England from schools upon the approved lists in their respective states will be admitted on the same basis as those from approved schools in New England.

Schools not upon the approved list of the Certificate Board, but meeting its requirements in respect to curriculum, teaching staff, and equipment, may, for the purpose of showing their standard of certification, send one or more students on certificate, if arrangements for so doing are concluded with the Board before April 1. Inquiries on this subject may be addressed to Professor Frank W. Nicolson, Secretary of the Board, Wesleyan University, Middletown, Conn.

2. By Examination:
   a. By examinations held at Middlebury, Thursday and Friday of Commencement week, and during the opening week of the first semester. Applicants are urged to take as many examinations as possible in June. A schedule may be obtained from the Registrar.

b. By examinations of the College Entrance Examination Board. All applications for the Board examinations, which are held in June, must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, and must be made upon a blank form to be obtained from the Secretary of the Board at least three weeks in advance of the examinations. The examination fee is $5 for all candidates examined at points in the United States and Canada.

c. By examinations of the Board of Regents of the State of New York.

REQUIREMENTS FOR ADMISSION

For admission to any course, fourteen points, or admission credits, are required. A point is a preparatory subject pursued one year with five recitation periods a week. Nine and one-half points in each course are required; the remainder of the fourteen may be made up from the list of options.

There can be no substitutions for the required points. Equivalents up to two points may be offered for the optional points, but these equivalents must meet the approval of the College as to both the quantity and the quality of the work done.

Students entering entirely by examination must, before matriculation, take examinations covering twelve points and including the required subjects. They may, at the discretion of the Admission Committee, enter conditioned in not more than four points, only two of which may be in required subjects.

The required and optional subjects are indicated below.

REQUIRED POINTS

For the A. B. Course		*For the B. S. Course*	
Latin	4	English	3
English	3	Latin, German, or French	2
Algebra	1½	Algebra	1½
Geometry	1	Geometry	1
		Two Points from the Following List:	
		Physics	1
		Chemistry	1
		Botany	½ *or* 1
		Zoology	½
		Solid Geometry	½
		Plane Trigonometry	½

OPTIONAL POINTS

(*Any four and one-half for either course*)

Latin	2, 3, *or* 4	Economics	½
German	2 *or* 3	Solid Geometry*	½
French	2 *or* 3	Plane Trigonometry	½
Greek History	½	Physics	½ *or* 1
Roman History	½	Chemistry	½ *or* 1
Medieval European History	½ *or* 1	Botany	½ *or* 1
		Physiology	½
Modern European History	½ *or* 1	Zoology	½
		Physical Geography	½
English History	½ *or* 1	Astronomy	½
American History	½ *or* 1	Mechanical Drawing	1
Civics	½	Free-hand Drawing	1

DEFINITION OF ADMISSION POINTS

LATIN: Four points required for admission to the A.B. Course; two, three, or four optional for admission to the B.S. Course.

In general, that proficiency in the subject is required which

*Freshmen entering with credit in Solid Geometry may begin at once the study of Trigonometry, which is recommended as the preferable course.

results from a study of Latin in a systematic course of five lessons a week for four school years.

Grammar and Composition. The requirement is that there shall be in memory a vocabulary of the prose authors which have been read in the school, a masterful knowledge of the inflections, including the common irregular forms, and such familiarity with the rules of syntax as shall enable the candidate to write simple Latin prose. The proficiency expected is such as is gained by continual exercises in prose composition during all the years of preparation.

The authors and amounts to be carefully studied in the class-room are as follows: Caesar: *Gallic War,* Books I-IV; or connected readings from Caesar: *Gallic War, Civil War,* and Nepos: *Lives,* not less in amount than Caesar: *Gallic War,* Books I-IV.

Cicero: *Orations against Catiline, Poet Archias,* and the *Manilian Law;* or connected readings from Cicero: *Orations, Letters, De Senectute,* and Sallust: *Catiline, Jurgurthine War,* not less in amount than the four *Orations against Catiline, Poet Archias,* and the *Manilian Law.*

Vergil: *Aeneid,* Books I-VI; or Vergil: *Aeneid,* Books I, II, IV, or VI, and 2500 additional verses of any work of either Vergil or Ovid.

The examination will contain (1) passages for translation from the authors suggested above; (2) sight passages suited to the proficiency resultant from the reading of authors indicated above; (3) questions on forms, syntax, literature, history, and prosody of the passages. Special importance will attach to the candidate's ability to deal intelligently with forms and syntax.

In the preparatory work, too much emphasis cannot be placed on accurate and continued reading of the Latin, on the thorough memorizing of a few attractive passages of text, and on constant drill at the board in composition and syntax, especially such as finds illustration in the passages memorized.

For the convenience of candidates, the examination may be divided into Preliminary and Final, to be taken in successive years.

GREEK: Three points, optional.

The examination in Greek presupposes a three years' course of five exercises a week. It may be divided between two successive years. The authors set for examination are Xenophon: *Anabasis,* Books I-III, and 50 additional pages of Attic prose, taken from the *Cyropaedia,* or *Memorabilia,* or both. For these, 50 pages, Book IV of the *Anabasis,* may be substituted.

Homer: *Iliad,* Books I-III, omitting the Catalogue; or Book I of the *Iliad* and 1000 additional lines of Homer.

The examination in Homer and Xenophon will contain also sight passages from both these authors, and questions on prosody, literature, history, and antiquities. There will also be an examination in Grammar and Composition, testing the candidate's knowledge of meanings, forms, and syntax and his ability to write detached sentences. This examination will be based on a passage taken from somewhere in the second book of the *Anabasis,* and presupposes daily drill continued through two years.

GERMAN: Three points, optional.

Examinations will include a practical test on oral and aural training; schools certifying candidates for admission will be required to state in the certificate whether the candidate has had proper training of this kind. By oral and aural training is meant that the candidate has been constantly trained in pronunciation, dictation, and free reproduction (at first in English and later in German) of German anecdotes read aloud by the teacher. No credit will be given for certificates of admission covering a shorter course than that prescribed in the Elementary requirement as stated below, except to candidates offering four years of Latin and three of Greek.

I. ELEMENTARY: *Two points.*

The Elementary requirement embraces a systematic course of four or five periods a week, extending over two school years.

During the first year the work should comprise: (1) careful and continuous training in oral and aural elements, includ-

ing drill in pronunciation, writing German from dictation, reproducing in English German anecdotes read aloud by the teacher, simple questions and answers on the reading-matter; (2) memorizing and frequent repetition of common idiomatic expressions; (3) drill upon inflection of adjectives with nouns, of pronouns, weak verbs, and the more common strong verbs; upon word order and the use of the modal auxiliaries and the more common prepositions; (4) the reading of 75 to 100 pages of easy prose, with constant practice in retroversion (the teacher translating a sentence from a review passage into English and the pupil turning it back into the exact German of the text) and in translating into German easy variations of sentences selected from the reading lesson (the teacher giving the English).

During the second year the work should comprise: (1) the reading of 150 to 200 pages of easy prose, it being recommended that none of the classic drama be read in the second year; (2) continuation of the oral and aural training of the first year; (3) accompanying practice in retroversion and free reproduction, and translation into German of easy variations of short and easy selected passages; (4) continued drill upon the rudiments of grammar.

II. Intermediate: *One point.*

The Intermediate requirement calls for a third year's work, which should comprise, in addition to the Elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice, as in the Elementary course, in oral and aural elements, and in giving paraphrase or reproductions from memory of selected portions of the reading-matter; also grammatical drill upon the less usual strong verbs, use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word order and word formation.

By the end of the third year the student should be able to dispense, for the most part, with translating into English.

For suggestions as to good reading-matter for both the

Elementary and the Intermediate course, the *Report of the Committee of Twelve* (D. C. Heath and Co., Boston) is recommended.

FRENCH: Three points, optional.

Examinations will include a practical test in oral and aural training; schools certifying candidates for admission will be required to state on the certificate whether the candidate has had proper training of this kind; that is, whether he has had constant drill in pronunciation, dictation, and the free reproduction (at first in English and later in French) of anecdotes read aloud in French by the teacher. No credit will be given for certificates of admission covering a shorter course than that prescribed in the Elementary course as stated below, except to candidates offering four years of Latin and three years of Greek.

ELEMENTARY: *Two points.*

The Elementary requirement embraces a systematic course of four or five periods a week, extending over two school years. During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, and the elementary rules of syntax, with constant drill upon exercises illustrating these principles; (3) the reading of at least 100 pages of graduated texts, with constant practice in writing in French easy sentences based on the texts read, and in free reproduction; (4) simple conversation, and the writing of French prose from dictation.

The work of the second year should include: (1) the reading of at least 200 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, and in the writing of sentences illustrative of syntactical principles;

(6) conversation, and the answering in French by the student of questions based on the text read; (7) retroversion and original composition.

INTERMEDIATE: *One point.*

The Intermediate requirement implies a systematic course of four or five periods a week, extending over a third school year. The work should comprise: (1) the reading of at least 400 pages of French of ordinary difficulty; (2) constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; (3) the study of a grammar of moderate completeness; (4) writing from dictation; (5) a continuation of the drill of the previous years in oral and aural training. During this year French should be, as far as possible, the language of the classroom, and by the close of the year students should be able to read intelligently, without translation, ordinary French prose or poetry.

ENGLISH: Three points. The requirements recommended by the Commission of Colleges in New England on Admission Examinations.

Note. No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

1. READING.

With a view to large freedom of choice, the books provided for reading for 1914-15 are arranged in five groups, from which at least ten units are to be selected, two from each group. For any unit of the first group, however, a unit from any other group may be substituted.

GROUP I. The *Old Testament,* comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey,* with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad,* with the omission, if desired, of Books XI, XIII, XIV, XV, XVII,

XXI; the *Aeneid.* (The *Odyssey, Iliad,* and *Aeneid* should be read in English translations of recognized literary excellence.)

GROUP 2. Shakespeare: *Merchant of Venice, Midsummer-Night's Dream, As You Like It, Twelfth Night, Henry V, Julius Caesar.*

GROUP 3. Defoe: *Robinson Crusoe,* Part I; Goldsmith: *Vicar of Wakefield;* Scott: *Ivanhoe* or *Quentin Durward;* Hawthorne: *House of the Seven Gables;* Dickens: *David Copperfield* or *Tale of Two Cities;* Thackeray: *Henry Esmond;* Gaskell: *Cranford;* George Eliot: *Silas Marner;* Stevenson: *Treasure Island.*

GROUP 4. Bunyan: *Pilgrim's Progress;* Addison: *The Sir Roger de Coverley Papers* in *The Spectator;* Franklin: *Autobiography;* Irving: *Sketch Book;* Macaulay: Essays on *Lord Clive* and *Warren Hastings;* Thackeray: *English Humourists;* Lincoln: *Selections,* including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman: *Oregon Trail;* Thoreau: *Walden,* or Huxley: *Autobiography* and selections from *Lay Sermons,* including the addresses on *Improving Natural Knowledge, A Liberal Education,* and *A Piece of Chalk;* Stevenson: *Inland Voyage* and *Travels with a Donkey.*

GROUP 5. Palgrave: *Golden Treasury* (First Series), Books II and III; Gray: *Elegy in a Country Churchyard;* Goldsmith: *The Deserted Village;* Coleridge: *The Ancient Mariner;* Lowell: *Vision of Sir Launfal;* Scott: *Lady of the Lake;* Byron: *Childe Harold,* Canto IV, and *The Prisoner of Chillon;* Palgrave: *Golden Treasury* (First Series), Book IV; Poe: *The Raven;* Longfellow: *The Courtship of Miles Standish;* Whittier: *Snowbound;* Macaulay: *Lays of Ancient Rome;* Arnold: *Sohrab and Rustum;* Tennyson: *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning: *Selections.*

2. STUDY.

The books set for this part of the examination for 1914-15 are Shakespeare: *Macbeth;* Milton: *L'Allegro, Il Penseroso,* and *Comus;* Burke: *Speech on Conciliation with America,* or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay: *Life of Johnson,* or Carlyle: *Essay on Burns.*

HISTORY: Three or five points, optional.

1. GREEK HISTORY: *One-half point.*

The history of Greece to the death of Alexander.

2. ROMAN HISTORY: *One-half point.*

The history of Rome through the reigns of the Antonines.

3. MEDIEVAL EUROPEAN HISTORY: *One-half point, or one point.*

To the fall of Constantinople.

4. MODERN EUROPEAN HISTORY: *One-half point, or one point.*

From the fall of Constantinople.

5. ENGLISH HISTORY: *One-half point, or one point.*

6. AMERICAN HISTORY: *One-half point, or one point.*

Preparation in History will be given credit upon the basis of time devoted to each branch of the subject, rather than upon the amount of ground covered. The training in History should require comparison and the use of judgment on the pupil's part, rather than the mere exercise of memory. The use of good text-books, collateral reading, practice in writing, and accurate geographical knowledge are essential.

CIVICS: One-half point, optional.

A half-year's study in the principles, methods, and usages of American government.

ECONOMICS: One-half point, optional.

A high school course in economics should run throughout the year, five periods a week. No absolute standard can be named as regards content. The course should emphasize the fundamental principles, avoiding the controversial features of the theory, and give as much attention as possible to the concrete facts of the business world.

MATHEMATICS: Three and one-half points, two and one-half points required.

a. ALGEBRA: *One and one-half points.*

(1) To Quadratics: *One point.*

The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions, ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative.

(2) QUADRATIC EQUATIONS, BINOMINAL THEOREM, AND PROGRESSIONS: *One-half point.*

Simple cases of equations with one or more unknown quantities that can be solved by the methods of linear or quadratic equations. Problems depending upon quadratic equations. The binomial theorem for positive integral exponents. The formulas for the *n*th term and the sum of the terms of arithmetic and geometric progressions, with applications.

b. PLANE GEOMETRY: *One point.*

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci

problems. Application to the mensuration of line and plane surfaces.

c. SOLID GEOMETRY: *One-half point, optional.*

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Application to the mensuration of surfaces and solids.

d. LOGARITHMS AND PLANE TRIGONOMETRY: *One-half point optional.*

Definitions of the functions of an acute angle; relations between these functions; proof of identities and solution of equations based upon these relations. Solution of right triangles by the use of logarithms; application to practical problems.

Definitions and periodicity of the functions of any angle. Derivation of the formulas for the functions of $A + B$, $2A$, and $\frac{1}{2}A$. Application of these formulas in proving identities and solving equations. Inverse functions.

Derivation of the Laws of Sines, Cosines, and Tangents. Solution of oblique triangles by the use of logarithms.

PHYSICS: One point, optional.

The candidate's preparation in Physics should include:

(1) The study of at least one standard text-book, supplemented by the use of many and varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in Elementary Physics.

(2) Instruction, by lecture-table demonstrations, upon the general principles involved in the pupil's laboratory investigations.

(3) Individual laboratory work, comprising at least thirty-five exercises. Every candidate must present as a part of the examination a note-book, certified by the teacher, and con-

taining in the candidate's own language a description of his laboratory exercises, the steps, observations, and results of each exercise being carefully recorded. The note-book must afford clear evidence of the pupil's ability to make accurate observations and to draw correct conclusions. Students who have not had the individual laboratory work may receive credit for one-half point.

CHEMISTRY: One point, optional.

The preparation in Chemistry should include individual laboratory work, comprising at least forty exercises selected from a list of sixty or more; instruction by lecture-table demonstrations to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations; the study of at least one standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of Elementary Chemistry. Students who have not had the individual laboratory work may receive credit for one-half point.

BOTANY: One point, optional.

A half-year's text-book study of the morphology and physiology of seed and seedling, stem, root, leaf, flower, and fruit, together with the preparation of a note-book containing accurate laboratory studies on the morphology of the above organs; and an additional half-year's study on the morphology of cryptogams. One-half point will be credited for either of these courses offered independently.

PHYSIOLOGY: One-half point, optional.

The preparation in Physiology should include a study of the nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. A note-book with careful

outline drawings of the chief structures studied anatomically, together with explanations of these drawings, and the study of a good text-book are essential.

ZOÖLOGY: One-half point, optional.

A half-year's work in general natural history of common animal types; physiology of types studied and comparison of processes of animals and plants; classification of animals into phyla and leading classes, and the great characteristics of these groups; preparation of a note-book containing accurate laboratory studies of types, such as protozoan, sponge, hydra, worm, clam, insect, frog.

PHYSICAL GEOGRAPHY, OR PHYSIOGRAPHY: One-half point, optional.

One-half year in the study of a good modern text-book, together with weekly laboratory and field exercises.

ASTRONOMY: One-half point, optional.

A half-year's work, including the following among the chief topics: *The Celestial Sphere:* designation of the directions of a heavenly body. *The Earth:* its axial rotation; time, latitude, longitude; its orbital revolution; precession, aberration, the seasons, equation of time, the calendar. *The Moon:* its axial rotation, orbital motion, librations, phases, surface features, physical condition; lunar and solar eclipses. *The Sun:* its rotation, physical characteristics, light, and heat. *The Planets:* apparent and real motions, individual characteristics. *The Law of Gravitation:* its control of the solar system; the tides. *Comets and Meteors:* their nature and motions. *The Stars:* designation, classification by constellations; motions, distance, brightness; variable. *Stellar Systems:* clusters, nebulae; the stellar universe, cosmogony.

FREE-HAND DRAWING: One point, optional.

A full year's work in drawing should include simple geometrical plane and solid figures, the simple pieces of ma-

chinery, with a fair knowledge of the rules of perspective and light and shade as applied in free-hand sketching. The student should complete at least twenty drawings.

MECHANICAL DRAWING: One point, optional.

At least eighty hours should be presented for credit in Mechanical Drawing. The work should cover the use of the instruments, simple geometrical drawings, projection drawings of solids and simple machine parts (or its equivalent), penciling, and inking. It is desirable that the applicant should have some instruction in lettering and proper dimensioning. He should be able to read simple drawings. Plates must be presented to show the ground covered and the quality of the work. These should be certified by the instructor.

ADMISSION
TO ADVANCED STANDING

A CANDIDATE for admission to advanced standing who comes from an approved institution of collegiate rank may receive credit, without examination, for work done at such institution, if he presents a detailed statement of his previous work. This statement should include a full list of preparatory subjects accepted for admission by the institution previously attended, and also a list of the subjects taken there for which credit has been attained. A letter of honorable dismissal from the institution last attended must also be presented.

Every other candidate for admission to advanced standing must first satisfy the entrance requirements of the courses which he desires to enter. He may then receive credit for any subject included in the

curriculum of that course in which he can pass a satisfactory examination. Such students, not coming from other colleges, will be required to pay a fee of $5 if admitted to the Sophomore class, or $10 if admitted to higher rank.

THE COLLEGE CURRICULUM

PLAN OF ORGANIZATION

MIDDLEBURY COLLEGE offers two hundred and fifty-five courses of instruction, which are organized in twenty departments. The detailed description of these courses will be found in another portion of the catalogue.

Hitherto, the courses offered by the several departments have been arranged in three general divisions of study, known as the Classical Course, the Pedagogical Course, and the Scientific Course. A change has been made, however, in the organization of courses, and beginning with the current academic year a new plan of arrangement, known as the group system, went into operation.

REQUIREMENTS FOR GRADUATION

MIDDLEBURY COLLEGE confers two baccalaureate degrees, Bachelor of Arts and Bachelor of Science. For the attainment of either degree a student must complete 120 credits of appropriately selected work. A credit may be defined as one hour of recitation a week for one semester. Thus, 120 credits are secured regularly by fifteen hours of recitations a week each semester for four years. Each completed course of instruction counts toward a degree, the degree being earned when 120 credits have been attained. The following courses must be included in the 120 credits required for graduation: for every student, one course of B grade in English, two courses of B grade in both French and German, two

courses of A grade in Mathematics; for every candidate for the degree of Bachelor of Arts, two courses of B grade in Latin or Greek; and for every candidate for the degree of Bachelor of Science, two courses of B grade in Mathematics. All students are required to take fifteen hours of recitation per week. Unless otherwise stated, all courses are given three hours a week.

THE GROUP SYSTEM

UNDER the group system, courses of instruction are ranked in three grades, A, B, and C; departments of instruction are arranged in three groups, the languages, the humanities, and the sciences; and students begin with their Sophomore year to elect their courses on a system of major and minor subjects of study.

The grade of each course of instruction is indicated by a letter (A, B, or C) attached to the title of the course. Courses of A grade are introductory or elementary in character, courses of B grade are intermediate, and courses of C grade represent either the highest work qualitatively, or the latest in sequence, that is offered in each department. Admission to courses of advanced grade is gained only through the completion of one or more appropriate courses of lower grade, which are designated as prerequisites. A few courses are not graded; they may be taken as free electives and counted for credits toward graduation, but not toward fulfilling major or minor requirements. Like graded courses, however, they are open to election to two classes only.

The grouping of the departments is shown in the following table:

Group One	*Group Two*	*Group Three*
English	Economics and Social Science	Biology
French	Fine Arts	Chemistry
German	History	Engineering
Greek	Music	Geology
Latin	Pedagogy	Home Economics
	Philosophy	Mathematics
	Political Science	Physics

Major and minor subjects of study are defined as follows: a major is a subject which a student elects to pursue through six graded courses in one department, aggregating eighteen hours, of which not more than two courses shall be of A grade and not less than two shall be of C grade. A minor consists of a subject which a student elects to pursue through four graded courses of one department, aggregating twelve hours, of which not more than two courses shall be of A grade.

STATEMENT FOR FRESHMEN

EVERY member of the Freshman class is required to take English 1-2 and Mathematics 1-2; to choose six hours a week from the following courses: Greek 1-2, Latin 1-2, French, and German (including 1a-2a), (with this exception, that a person who on entrance secures credits for three years of one modern language may substitute for three hours of the modern language requirement one of the electives listed below); and to complete the requirement of fifteen hours of recitation a week by electing from the following courses:*

Biology 1-2
Chemistry 1-2
Engineering 1-2
Physics 1-2
History 1-2

*Physics is open to those who have taken entrance credits in both Solid Geometry and Physics, including laboratory note-book.

Students of modern language will be placed in those courses for which, in the judgment of the instructors, they are best fitted; and no student will receive credit for doing work in college of the same grade as that for which he has already received entrance credit.

STATEMENT FOR SOPHOMORES

EACH Sophomore shall register his choice of two majors and two minors to be completed during the remainder of his college course. Courses completed in Freshman year may be counted toward fulfilling the major and minor requirements. The two majors must be in different groups and the two minors must be in different groups; but one major and one minor must fall in one group, and each student's majors and minors must be so distributed as to include courses in each of the three main groups.

Sophomores who are candidates for the degree of Bachelor of Arts will so arrange their courses that a major and a minor both fall either in group one or group two, while Sophomores who are candidates for the degree of Bachelor of Science will so arrange their work that a major and a minor both fall in group three.

Members of the Class of 1916 who are candidates for the degree of Bachelor of Arts may fulfil their modern language requirement by completing either two B courses in both French and German, as provided under the new plan, or two B courses in either French or German, as heretofore required. Admission credits for two points in modern language are ranked as two A courses, and admission credits for three points as two B courses.

DISTRIBUTION SHEET SHOWING THE GRADE OF COURSES OPEN TO ELECTION

BY SOPHOMORES, JUNIORS, AND SENIORS

GROUP ONE	*Sophomore*	*Junior*	*Senior*	GROUP TWO	*Sophomore*	*Junior*	*Senior*	GROUP THREE	*Sophomore*	*Junior*	*Senior*
English	B	B, C	C	Econ. & Soc. Sci.	A	A, B	B, C	Biology	A	A, B	B, C
French*				Fine Arts†				Chemistry	A, B	B, C	C
German*				History	A, B	B, C	C	Engineering	A	A, B	B, C
Greek	B	B, C	C	Music	A	A, B	B, C	Geology	A	A, B	B, C
Latin	B	B, C	C	Pedagogy	A	A, B	B, C	Home Economics	A	A, B	B, C
				Philosophy	A	A, B	B, C	Mathematics	B	B, C	C
				Political Science	A	A, B	B, C	Physics	A	A, B	B, C

*The modern language courses of Freshman year will be determined by the qualifications of the students; after Freshman year these courses will follow in sequence, as indicated in the description of courses.

†The courses in the Department of Fine Arts are not graded, but together they constitute a minor; see note p. 64.

DISTRIBUTION OF MAJORS AND MINORS

THE following table shows the permissible distribution of majors and minors in the three groups:

Group One	*Group Two*	*Group Three*	*Degree Pursued*
major and minor	minor	major	A.B.
minor	major and minor	major	A.B.
minor	major	major and minor	B.S.
major	minor	major and minor	B.S.
major	major and minor	minor	A.B.
major and minor	major	minor	A.B.

It will be observed that the major and minor requirements provide only one-half of the total number of credits required for graduation. Any courses may be chosen as free electives to complete the number, subject only to the restrictions which are stipulated in the descriptions of the courses, the limitations of the schedule of recitations, and the distribution sheet of graded courses.

STATEMENT FOR JUNIORS AND SENIORS

THE Classes of 1914 and 1915 may complete their credits for graduation by the free election of any courses open to students in their Junior and Senior years. The key to such courses will be found in the distribution sheet of graded courses. Members of the Classes of 1914 and 1915 who are candidates for the degree of Bachelor of Science may substitute, if so desired, for the second year of required Mathematics, two years of Biology, Chemistry, Geology, Physics, or Political Science. It will be found possible in many cases for Juniors and Seniors

to fulfil the conditions for securing majors and minors, and students are advised to do so whenever it is possible. The distribution sheet and the schedule of recitations should be carefully consulted by all students before registering their electives.

REGISTRATION AND CHOICE OF STUDIES

EVERY student is required to register at the Registrar's office at the beginning of each semester. No student will be received in any class until he has presented to the instructor a card from the Registrar's office admitting him to that class.

Students securing admission credits in any study of the curriculum will ordinarily be required to elect another study in its place, either an advanced subject in the same department, or a study in some other department of instruction.

More than fifteen hours of recitation a week may be taken under the following conditions:

1. A student who presents to the Faculty during the first semester of the Freshman year satisfactory evidence of attainments and ability may be considered a candidate for the Bachelor's degree in three years. Such a student may take twelve courses in his first year, and fourteen in each of his second and third years.

2. Conditioned students or students compelled to repeat a course may take six courses in any semester, provided that no obligation to repeat or unremoved condition was incurred in the semester immediately preceding.

3. Any student not affected by the two preceding rules and desiring to take six courses in any semester

must have attained in the studies of the previous semester an average of 75 per cent. Freshmen may take one study in addition to the regular five for the purpose of making up an entrance condition.

4. A student who takes more than five subjects a semester shall be charged $10 for each additional subject, aside from laboratory fees, except that a student gaining his degree in three years shall not be required to pay more than $400 for the course.

When a student has more than fifteen hours in any semester, his rank for the semester shall be determined by the fifteen hours in which he receives the highest marks, except that marks on all required subjects shall be included.

A Freshman admitted without conditions may request of the Registrar, at the time of registration, an examination for college credit in any subject of the Freshman year. If such examination is passed with a grade of 75 per cent, credit will be allowed for the course toward any degree, as though the subject had been taken regularly in college. A student passing off any subject or subjects in this manner will be required to make up fifteen hours of recitation a week from other studies offered to his class.

THE STUDENT AND THE CURRICULUM

THE pursuit of liberal culture does not prevent the student from shaping his college work definitely toward some chosen professional or vocational end, and all students are urged to pursue conscientiously a deliberate plan of study. Middlebury College offers to every student the personal advice and assistance of the President and some member of the Faculty in laying out a purposeful plan of work in

college. Every student at the beginning of his college career consults the President and is referred to a proper personal adviser, whose assistance and approval of the student's choice of studies is necessary before admission cards are issued to courses of instruction.

While it is imposible to indicate here the exact co-ordination of courses best suited to the individual needs of every student, the following suggestions will prove helpful in a general way to students who are interested in securing training along definite professional lines. The privilege of electing majors and minors in favorite branches, together with the large proportion of free electives, provides scope for a wide range of personal preference and an opportunity for intensive study in each of several lines. This end can be accomplished, however, only by a wise choice of majors, minors, and free electives.

THE CLASSICAL STUDENT

So far as their relation to the college curriculum is concerned, most students at Middlebury may be put into one of three general classes. In the first class are those who under the former division of courses would have been enrolled as classical students. It comprises those who are seeking the broadest culture, but not definite vocational training while in college. This class of students includes many who will eventually study law, medicine, or theology, also those intending to become librarians, and many who wish to pursue advanced studies in philosophy, literature, or science. Such students should pursue the degree of Bachelor of Arts, and should elect in college a larger proportion of subjects in language, lit-

erature, and philosophy than those intending to enter upon profesional work immediately after leaving college. They should not attempt to anticipate in college the distinctive work of the professional school.

THE SCIENTIFIC STUDENT

THE second class of students consists of those who intend to follow some branch of scientific work, or who wish to devote special attention to mathematics or some department of natural or physical science. Such men, of practical turn of mind, receive the best mental training through a large selection of mathematical and scientific courses. At the same time, these students need thorough discipline in English and Modern Languages, in History and Political Science, and in Psychology. Under the old system of classification they would have been enrolled in the Scientific Course, and they should pursue the degree of Bachelor of Science.

The attention of students of this class is called to the recent expansion of the Department of Engineering, which aims to give instruction to the following classes of students:

(1) Those intending to pursue further studies at an institute of engineering. The present day demands a broad cultural education for engineers. Many of the first-grade technical schools now require before entrance a college education. Our graduates may enter the Junior year of the best technical schools without examination. Such an arrangement has been concluded with the Massachusetts Institute of Technology.

(2) Those who desire to include in a broad cultural college course a proportion of technical subjects

which will be useful to them in securing positions after graduation.

(3) Those who do not contemplate advanced technical studies, nor employment as engineers, but who desire certain engineering subjects for their cultural value and their relation to other sciences. A special bulletin covers more in detail the work of the department.

THE STUDENT WHO INTENDS TO TEACH

A THIRD and important group of students at Middlebury consists of those who intend to enter upon educational work professionally, either as teachers of high school subjects or as supervisors of rural schools. Heretofore, such students have taken the Pedagogical Course, and they still require the training that was offered in that course. Furthermore, their professional needs are made more emphatic by recent requirements established by certain State Boards of Education for the certification of high-school teachers. The following is an abbreviated statement of the requirements set by the Vermont Board of Education for teachers entering service in Vermont high schools:

Academic Requirements.

A. A college degree, or graduation from a four years' normal course following a four years' course in a secondary school.

B. Satisfactory evidence of college work in at least two three-hour courses pursued through two years, or four semesters, each.

C. Satisfactory evidence of college work in at least

one other subject pursued through two semesters.

The subjects under B and C are to be selected from the following:

English	Latin	Music
History	Biology	Drawing
Mathematics	Botany	Mechanical Arts
French	Agriculture	Physical Geography
German	Physics	Physiology
Greek	Chemistry	Domestic Science
Spanish	Economics	Political Science

Professional Requirements after July 1, 1914.

Satisfactory evidence of the completion of college work in at least four semester-courses of three hours each or two year-courses of three hours each in subjects selected from the following fields:

History and Principles of Education;
Psychology of Education;
Methods of Teaching;
School Administration.

The courses of the Pedagogical Department have been arranged to meet these requirements fully. Students who intend to follow teaching as a profession should select one major in the Department of Pedagogy. Those who intend to teach at all should at least minor in the department, or take not less than four courses selected to fulfil the demands of the State Board of Education. All pedagogical students should pursue the degree of Bachelor of Arts.

SUGGESTED PLANS OF STUDY

THERE are many students whose individual needs are not provided for by the suggestions made for these three general classes. Students with a leaning toward any one of the special branches of activity noted below will find suggested under each heading

various combinations of majors, minors, and free electives which cannot fail to prepare them for the more specialised work of later years. At the same time, it should be stated that the system of distributing courses does not permit students to specialise to such an extent as to deprive themselves of that general culture which it is the aim of the college to give to every student.

Agriculture.

Students intending to devote themselves to farming, agricultural enterprises, or social work in rural communities may pursue either the degree of A.B. or B.S.; but they are advised to choose a major from Biology, Chemistry, or Geology, with a related minor in Mathematics, Physics, or Engineering. The second major may profitably be selected from the departments of Economics and Social Science, History, and Political Science, with a second minor and free electives distributed among courses of native interest to the student.

Business.

Students desiring to enter business directly after graduation are advised to select a major and minor in Group 2, ordinarily from the Departments of Economics, Political Science, and History; and to select a second major either from some department of Group 1 or Group 3, according as the probable demand of their future calling will be for linguistic or scientific preparation.

Education.

Students whose design is to teach or supervise will ordinarily pursue the degree of Bachelor of Arts. Their work should include a major in Pedagogy, with additional courses sufficient to secure honors or special honors. A second major may profitably be taken from the principal subject in which the student desires to specialise, whether it be Science or Language, with minors in related or favorite branches of study. Consultation with members of the Department of Pedagogy

is advised, and a careful study of the bulletins issued by the department.

ENGINEERING.

Students by following strictly one of the branches described in this department may secure the advantages of unconditioned admission to Junior standing in the best technological institutions. They will need to consult the special bulletin of the Engineering Department as well as the instructors in that department as to the details of their work.

GOVERNMENT SERVICE.

Excellent preparation for technical employment in government service may be gained by students who build a solid foundation for such later work in Biology, Chemistry, and Physics. Other courses of value will be found in the departments of Economics, Political Science, History, French, and German.

JOURNALISM.

Students selecting Journalism as a profession should elect a major in English, with a minor in an ancient or modern language, a second major or minor in Economics and Social Science, Political Science, or History, and a minor in some preferred branch of Group 3. The free electives should include a liberal amount of work in Philosophy, Pedagogy, and the Languages.

LAW.

Students intending to practise law should specialise in Economics, Political Science, and History, preferably selecting a major and minor both from Group 2. A liberal amount of work should be elected in English, Ancient and Modern Language, and a minor or major in Group 3, preferably in Mathematics.

MEDICINE.

Students desiring a pre-medical course are advised to include Biology and Chemistry in their majors and minors, with

Scientific German, Latin, Psychology, as related subjects, and free electives in Political Science, History, Physics, and Philosophy.

Mineral Industry.

Students intending to connect themselves with enterprises in mineral industry should major in Geology, minor in Chemistry, Engineering, or Physics, and select courses liberally in Economics, Political Science, and Modern Language.

Theology.

Students intending to enter the ministry will do well to select in their college course a major in Greek or Philosophy, with a minor in English or German. To these should be added studies in Economics and Social Science, History, Political Science, and Pedagogy, and a good knowledge of some one of the sciences.

DEPARTMENTS AND COURSES OF INSTRUCTION

In the following pages, courses with odd numbers are given in the first semester, those with even numbers in the second semester. The capital letter following the title of a course indicates the grade of the course. Prerequisite courses are indicated in parentheses. The use of the hyphen between two course numbers indicates that both are prerequisite. All courses are given three times a week unless otherwise stated. During the current year students may elect, at the discretion of the instructor, courses which they have planned to take on the basis of the old system of elections, even though all prerequisites may not have been taken or the courses desired are not indicated on the distribution sheet as open to their classes. Elections of courses for the second semester of 1913-14 must be made from this catalogue, not from the September Bulletin.

Instruction in all departments is open to the students of the Women's College, on equal terms with men, under the same conditions of election, and with the same requirements for graduation. The attention of students in the Women's College is called to the two new departments of Fine Arts and Music, and to the Departments of Home Economics and Household Chemistry, which are recent additions made to meet the special needs of women students.

I. BIOLOGY

Professor LAMBERT

Assistant Professor PICARD

1. PLANT BIOLOGY (*Elementary Botany*). A

A course in the nature and development of plants. A study of the morphology and physiology of a typical member of the highest group of plants, together with a consideration of representative forms of lower plant life.

Laboratory fee, $5. Assistant Professor PICARD.

2. ANIMAL BIOLOGY (*Elementary Zoölogy*). A

An introduction to the facts of Biology as expressed in animal life; the fundamental differences between plants and animals; the structure and function of the cell; and the laboratory study of a series of animal forms illustrating the general principles of development. (Biol. 1.)

NOTE: These two courses present a year's consecutive work in Biology, lay a broad foundation for advanced work in the Natural Sciences, and are recommended for students who intend to teach Natural Sciences or to study Medicine, Agriculture, or Forestry.

Laboratory fee, $5. Professor LAMBERT.

COURSES IN APPLIED BIOLOGY

3. BACTERIOLOGY. B

The principles of Bacteriology and the methods used in the study of bacteria. An investigation of the relation of bacteria to sanitary science, household economics, and disease. Laboratory work in the making of culture media, quantitative and qualitative analysis of water, milk, etc., for their bacterial content; the isolation of particular forms, and the study of their physiological characters. (Biol. 1-2, or Chem. 1-2).

Laboratory fee, $5. Professor LAMBERT.

4. Entomology. B

An introduction to the study of insects, their classification, structure, habits, and life history. Particular attention will be given to the consideration of their economic relations, the subject of parasitism, and the different methods by which insect pests may be controlled. (Biol. 1-2.)

Laboratory fee, $5. Professor Lambert.

BOTANY

Assistant Professor Picard

1. Elementary Botany. A

For description of this course, see Biology 1.

3. Structure of the Lower Plants. B

A morphological study of important forms of bacteria, algae, fungi, lichens, hepatics, mosses, and ferns. (Biol. 1-2.)

Laboratory fee, $5.

4. Plant Anatomy. B

A course in wood structure, primary and secondary growth of broad-leaved and coniferous trees, identification of woods. This course should be taken by students expecting to study Forestry. Such students should also take Botany 7 for the study of the diseases of trees. (Bot. 3.)

Laboratory fee, $5.

6. Histological Technique. B

Methods of fixing, embedding, and staining of a series of preparations by the paraffin method. This course also includes some work in special morphology, and should be taken by students who intend to teach or do advanced work in Botany. (Bot. 3.)

Laboratory fee, $5.

7, 8. Mycology. C

A systematic and biological course on the fungi. The first semester is devoted to the study of the highest group of fungi, including mushrooms, wood-destroying fungi, the smuts, and the rusts. The lower groups are studied during the second semester, including leaf spots, fruit blights, anthracnoses, molds, scabs, and fruit rots. (Two B courses.)

Laboratory fee, $5 for each semester.

9. Heredity, Variation, and Evolution in Plants.

A lecture course, including the history of the subject, Weismannism, Mendelism, the mutation theory; the fundamental principles of plant breeding, with some discussion of the philosophical aspects of Botany. This course is described as Botany 10 in the September Bulletin and will be given in the second semester, 1913-14; thereafter, in the first semester.

Open to Juniors and Seniors.

11, 12. Botanical Seminary. C

The botanical seminary should be elected by all students in the Department of Botany who are taking C courses, and may be elected by other students who, in the judgment of the instructor, are qualified to take part in the meetings. The seminary meets once a week to review articles in current botanical periodicals and to discuss recent research, one session counting as three hours. (Two B courses, at least simultaneously.)

ZOÖLOGY

Professor Lambert

2a. Physiology and Hygiene. A

Discussions and demonstrations of the structure of the body, the relations of the various organic systems to bodily activity, the functions of the different organs, causes and conditions of disease, laws of health, and general care of the body.

2. Elementary Zoölogy. A

For description of this course, see Biology 2.

3, 4. General Zoölogy. B

An extended study of the animal kingdom. A careful survey of the habits, distribution, and classification of animals. The work is divided equally between the two semesters, the first semester being occupied with the study of the invertebrate, the second semester, of the vertebrate animals. Recommended for those who intend to teach natural sciences in secondary schools. To be given in 1914-15. (Biol. 1-2.)

Laboratory fee, $5.

5, 6. Vertebrate Morphology. C

The object of this course is to develop an accurate knowledge of anatomy by a comparative study of the different organic systems of the vertebrate body, reference being made constantly to the structure of the human body. Lectures, demonstrations, readings and reports, and the dissection and comparison in the laboratory of typical forms illustrating the development of the vertebrate series. (Zool. 3-4.)

Laboratory fee, $5.

7. Vertebrate Embryology. C

A laboratory study of the embryological development of the vertebrate body. Discussion of the maturation and fertilization of the egg; the origin of the germ layers and their relation to the rise of the various organic systems of the body. The development of the frog, chick, and a mammal will be investigated in the laboratory. (Zool. 5-6.)

Laboratory fee, $5.

8. Evolution and Heredity. C

A study, through lectures, readings, and reports, of the various problems of evolution. (Zool. 5-6.)

9. Neurology. B.

An elementary study of the vertebrate nervous system, with special reference to the structure and function of the human

brain. The work will consist of lectures and recitations supplemented by a careful study, in the laboratory, of the fundamental structure of a mammalian brain. This course is especially recommended for students who are pursuing studies in Philosophy and Pedagogy. (Biol. 2 or Ped. 2.)

Laboratory fee, $5.

II. CHEMISTRY

Professor McGILTON

Assistant Professor VOTER

1. DESCRIPTIVE CHEMISTRY. A

Non-metallic elements, their principal compounds, and their relation to the metals; acids, bases, and salts and their formation; electrolytic dissociation, ionisation, Faraday's laws, and the theory of solution. Numerous chemical problems involving atomic and molecular weights, percentage composition, etc., are solved by the student. Lectures and recitations.

Laboratory fee, $5. Professor McGILTON and Assistant Professor VOTER.

2. GENERAL LABORATORY CHEMISTRY. A

Lectures, recitations, and laboratory work on general descriptive chemistry. By means of the study of the preceding semester the student is able to prepare the most important chemical compounds at his own desk. Full notes are kept by him of each step taken and each observation made, and frequent reports are presented to the instructor. The sources and industrial value of the substances handled are considered. (Chem. 1.)

Laboratory fee, $5. Professor McGILTON and Assistant Professor VOTER.

3, 4. QUALITATIVE ANALYSIS. B

Special attention is given to the analytical reactions of each base and to practice in the separation of metals from each other in unknown liquid and solid mixtures. The character-

istic reactions of acid radicals are studied and the complete constitution of unknown bodies is determined. Preliminary tests and blow-pipe analysis are a part of the work. (Chem. 1-2.)

Laboratory fee, $5 for each semester. Professor McGILTON.

5. QUANTITATIVE ANALYSIS. C

Lectures and laboratory work on analytical methods of general application to quantitative chemistry. The use and manipulation of the chemical balance, general laboratory practice, accuracy of measurement, and stoichiometric problems especially emphasized. The semester's work consists of the usual gravimetric analyses and the complete analysis of a carbonate rock. (Chem. 3-4.)

Laboratory fee, $5. Assistant Professor VOTER.

6. QUANTITATIVE ANALYSIS. C

The semester's work consists of volumetric analysis, involving the making of standard solutions, standardization of glass apparatus, and uses of various indicators. Technical methods in the analysis of commercial products are studied and introductory experiments in electro-analysis carried out. (Chem. 3-4.)

Laboratory fee, $5. Assistant Professor VOTER.

7, 8. INDUSTRIAL AND SANITARY CHEMISTRY. C

Lectures on the chemical processes involved in the large-scale manufacture of gas, fuels, paper, glass and ceramics, fertilizers, soda, sulphuric acid, dyes, paints, soap, coal-tar products, fermentation products, sugar, disinfectants, antiseptics, and other commercial products. (Chem. 3-4, at least simultaneously.)

Laboratory fee, $3. Assistant Professor VOTER.

9. AGRICULTURAL CHEMISTRY. C

Analysis of soils, fertilizers, and feeding materials. The effect of acid-forming and base-forming elements in soils and

fertilizers. The composition of foods and the principle of balanced rations. The analysis of dairy products, and factors which influence the sanitary conditions of dairying. The effects of bacteria in milk and its products, the principles of nitrification, and the influence of bacteria in soils. To be given in 1914-15. (Chem. 3-4 and 7; 7 may be taken the same semester.)

Laboratory fee, $5. Assistant Professor VOTER.

10. PHYSICAL AND THEORETICAL CHEMISTRY. C

The course includes a treatment of the historical development of chemical theory and stoichiometry. Lectures. To be given in 1914-15. (Chem. 3-4.)

Assistant Professor VOTER.

11, 12. ORGANIC CHEMISTRY. C.

The genetic relationships of the more important classes of carbon compounds and their bearing upon chemical and agricultural industries. Composition, purification, classification, constitution or structure of organic compounds. Typical class reactions with various reagents. Study of the paraffins, alcohols, ethers, fats, sugars, and coal tar. Changes occurring in the metabolism and katabolism of the human body. Not to be given in 1914-15.
(Chem. 1-2.)

Laboratory fee, $3 for each semester. Assistant Professor VOTER.

III. ECONOMICS AND SOCIAL SCIENCE

Assistant Professor MORGAN

ECONOMICS.

1. PRINCIPLES OF ECONOMICS. A

A general course for beginners, its purpose being to afford a systematic survey of the field of economics. The practical

aspects of the production and use of wealth are discussed as fully as time permits.

2. Money, Credit and Banking. B

Monetary theory, credit instruments, and the monetary history of the United States; the theory of banking, and the banking systems of the United States and leading European countries. One-third of the time is devoted to laboratory work. (Econ. 1.)

3. Economics of Transportation. B

Railway development, organization, and regulation, with special emphasis on American railways; ocean and inland water transportation. To be given in 1914-15. (Econ. 1.)

4. Public Finance. C

The principles of government expenditure, revenue, and debt; examination of American and European tax systems, with special emphasis on present-day problems of taxation in the United States. (Any B course in Econ.)

5. Economics of Corporations. B

The growth of corporations in general; the promotion, organization, and management of typical corporations; government control; the trust problem. To be given in 1915-16. (Econ. 1.)

7. Problems of Labor. C

Progress of the workers in Europe and America; conditions, wages, hours, legislation; methods of promoting industrial peace. (Econ. 1 and any B course in Econ. or Soc. Sci.)

8. History of Economics. C

The beginnings, the progress, and the various schools of economic science; survey of the writings of Adam Smith and the leading nineteenth century economists; economic analysis, including value, capital, rent, interest, and wages. To be given in 1914-15. (Any B course in Econ.)

SOCIAL SCIENCE

12. Sociology. A

Basis of society; social evolution; social institutions; demography; social progress.

13. Philanthropy. B

Dependents, defectives, and delinquents; heredity and environment in relation to these abnormal classes; their private and public treatment. (Soc. Sci. 2 or Econ. 1.)

14. Rural Life. C

The economic, social, and religious conditions affecting the country dwellers in America, with special emphasis on conditions in New England. To be given in 1914-15. (Soc. Sci. 13, or any B course in Econ.)

16. Social Reforms. C

Social romances; communistic experiments; history of socialism; examination of the works of selected modern socialists. To be given in 1915-16. (Econ. 1 and any B course in Econ. or Soc. Sci.)

IV. ENGINEERING

Assistant Professor Swett

Assistant Professor Barnes

1. Mechanical Drawing. A

Lettering, title designing; drawing instruments and their use; elementary exercises, dimensioning; geometrical problems; orthographic projection; intersection and development of surfaces; tinting. This course and 2 should be of value to many students not following engineering. Three two-hour periods.

Assistant Professor Swett.

2. Mechanical Drawing. A

Working drawings, detailing and dimensioning; assembly drawings; tracing and blue-printing; shading; perspective and isometric drawings. Three two-hour periods. (Engin. 1.)

Assistant Professor Barnes.

Note: A set of drawing instruments, with triangles, etc., may be rented from the department for $1.50 a semester; drawing board and T square, 50 cents.

CIVIL AND SANITARY ENGINEERING

Assistant Professor Swett

3. Descriptive Geometry. B

Representation of the point, line, and plane, with problems relating to them; representation of plane surfaces and surfaces of revolution; intersection of surfaces by lines, by planes, and by other surfaces; development of surfaces; single and double curved surfaces; warped surfaces. Three two-hour periods. (Engin. 2 and Math. 1.)

4. Stereotomy. B

The application of descriptive geometry to masonry structures with plane, curved, or warped surfaces, such as intersecting arches and walls, abutments, and culverts. Three two-hour periods. (Engin. 3.)

5, 6. Surveying and Plotting. B

Lectures, fieldwork, and drafting. The use of the chain, tape, compass, transit, and solar attachment is taught, followed by the various forms of leveling instruments. The work in the drawing room consists in making computations, scale drawings, profiles, and contour maps, and in studying the application of contour maps in the solution of problems of drainage, location, landscape engineering, etc. Astronomical observations are also made, followed by the necessary computations. Two three-hour periods. (Engin. 2 and Trig.)

7. Topography; Geodesy. C

Methods of topographic and geodetic surveying. Field work in making plane and topographic surveys with the stadia transit and with the plane table; the use of the barometer in determining differences of elevation; the measurement of a base line; triangulation. Drafting-room work includes computations and drawings covering the results of the field observations, and the drawing of conventional signs employed in topographical maps. Two three-hour periods. (Engin. 6.)

8. Surveying and Plotting. B

A course similar to Courses 5 and 6, intended especially for students in mechanical and electrical engineering. This course will be of value to many students not contemplating advanced studies in any branch of engineering. Two three-hour periods. (Engin. 2 and Trig.)

9, 10. Railroad Engineering. C

The mathematics of curves, with applications to the location of railroads and highways; methods of staking out and computing earthwork; forms and dimensions of tunnels; methods and cost of tunnel excavation. The field work includes the reconnoisance, the preliminary survey, and the staking out of the center line. The line is subsequently leveled, benches and reference points established, topography taken, and a profile made. There is systematic drill in running curves of various kinds, in methods of cross-sectioning, and in staking out earthwork and culverts. Two three-hour periods. (Engin. 7.)

12. Theoretical and Applied Hydraulics. C

Equilibrium and pressure of liquids; motion and work of fluids; flow of water through orifices, over weirs, in pipes, and in canals; measurement of water power; hydraulic machinery. The field-work includes measurements of the flow of water in open channels by means of floats, current meters, and weirs; some time is given to the graphical work and computations required in finding the discharge from measurements made in the field. (Engin. 6 or 8; Math. 5-6 is desirable.)

14. Municipal Engineering. C

Highway Construction: A brief study of the economies, location, construction, and maintenance of roads and pavements.

Water-supply and Sanitation: The collection, storage, and distribution of water in cities and towns; sewage disposal; the purification of water and sewage. (Engin. 6 or 8.)

MECHANICAL AND ELECTRICAL ENGINEERING.

Assistant Professor Barnes.

21. Machine Drawing and Sketching. B

Representation, dimensioning, and specification of machine parts; a study of standard commercial forms, such as rivets, screws, and bolts; pipe fittings, structural shapes, gears, etc.; working sketches with complete dimensions from drawings and machine parts. Two three-hour periods. (Engin. 2.)

22. Advanced Machine Drawing. B

Detail and assemble drawing from sketches; detailing from assembly; simple designing from observation and empirical rule; use of data sheets; time keeping, filing, and indexing. Three two-hour periods. (Engin. 21.)

23. Kinematics. B

Study of motion and forms of mechanisms; velocity and acceleration diagrams; instantaneous centers; belting, cams, gear teeth and gear trains; link work and valve gears. Three hours a week. (Trig.)

23a. Kinematic Drawing. B

Drawing-board application of the work in Course 23; solutions of mechanical movements, cam design, gear teeth, simple kinematic design. Two three-hour periods. Supplementary to Course 23.

24. Elements of Power Production. A

Theory and principles of operation; steam boilers, engines, and turbines; power plant auxiliaries; gas producers and internal combustion engines; visits to power plants to exemplify the work. Courses 24, 25, 29, and 30 constitute a suitable basis for general power engineering. Three hours a week.

25. Elements of Electrical Engineering. B

Fundamental electrical and magnetic quantities; electric circuits, magnetic circuits; transformers and their application; electric motors and their application; electric lighting and heating; electrical measurements; electric generators and power stations; transmission of electricity. Courses 24 and 25 will be of value to many students not contemplating advanced studies in any branch of engineering. Three hours a week. (Phys. 2; Phys. 5 is desirable.)

26. Statics and Kinetics. B

Resolution compositions and equilibrium of forces, statics of rigid bodies, cords and structures, center of gravity and moment of inertia; kinematics and fundamental equations of motion, velocity, and acceleration; Newton's Laws; dynamics of a rigid body; impact, momentum, centrifugal and centripetal forces, energy of rotation; work, energy, and power; graphical statics of structures and mechanisms; practical problems showing the application of mechanics to engineering. Three two-hour periods. (Math. 5-6, at least simultaneously; Phys. 1 is desirable.)

27. Mechanics of Materials. C

Stress and strain; strength and elastic properties of materials in tension; compression and shear, torsion; bending moments, safe loading, deflection and resilience; in simple and continuous beams, non-prismatic beams; the use of manufacturers' hand-book, and problems showing the application of the principles in engineering design. Three hours a week. (Engin. 26.)

28. Mechanics of Materials. C

Columns and Struts: Eccentric loading and combined stresses; hooks and springs; cylinders and flat plates; reinforced concrete beams.

Materials of Construction: Physical and mechanical properties of materials used in engineering, such as stone, brick, cement, concrete, wood, iron, and steel; the specification and use of these materials in engineering; the manufacture of iron, steel, cement, etc. Three hours a week. (Engin. 27).

Note: Courses 26, 27, and 28 constitute a consecutive study of the mechanics of engineering.

29. Thermodynamics. C

Conception of thermodynamic quantities, and their application to various gases; the efficiency of heat engines; graphic representation; general equations of thermodynamics; engines using steam and other vapors; refrigeration; use of the steam tables, and solution of problems taken from engineering practice. Three hours a week. (Math. 5-6; Phys. 2 is desirable.)

30. Power Plant Engineering. C

Cost study of Power Plants: Selection of equipment and operating costs with practical problems, illustrated by inspection trips.

Power Plant Testing Apparatus: Complete test of a power plant to determine economy and efficiency; calculations and report on the trial. Three hours a week. (Engin. 24; Engin. 29 is desirable.)

V. ENGLISH

Professor Wright

Assistant Professor Cady

Assistant Professor Harrington

1. Composition and Rhetoric. A

A laboratory and lecture course based on a series of problems illustrative of the principles of unity, coherence, and emphasis.

Required of all Freshmen. Professor WRIGHT and Assistant Professors CADY and HARRINGTON.

2. COMPOSITION AND RHETORIC. A

A continuation of 1, together with a study of the paragraph, the sentence, and the word.

Required of all Freshmen. Assistant Professors CADY and HARRINGTON.

3. HISTORY OF ENGLISH LITERATURE. B

A rapid treatment of the successive phases of English literary development. The leading factors of English history are also discussed whenever they are necessary to an adequate understanding of the subject. (Eng. 1-2.)

Professor WRIGHT.

4. HISTORY OF AMERICAN LITERATURE. B

A treatment of the successive phases of American literary development, similar to that of 3. (Eng. 1-2.)

Assistant Professor CADY.

5, 6. PUBLIC SPEAKING. B

A study of the principles of the adequate and effective expression of ideas before an audience, together with practice in the application of these principles. (Eng. 1-2.)

Assistant Professor HARRINGTON.

7. OLD ENGLISH LANGUAGE AND LITERATURE. C

A rapid survey of the development of English speech from the beginning to the present time is included in this course, which is preparatory to 8. (Any two B courses.)

Professor WRIGHT.

8. FOURTEENTH CENTURY LANGUAGE AND LITERATURE. C

A study centering in Chaucer, but giving to the other authors of the period each his due place. (Eng. 7.)

Assistant Professor HARRINGTON.

9. SHAKESPEARE. B

A study of the fundamental facts of Shakespeare's life and art, as illustrated in a selected number of the plays. (Eng. 3.)

Assistant Professor CADY.

10. PRE-SHAKESPEAREAN DRAMA. B

A study of the development of the English drama up to the time when Shakespeare began his work. (Eng. 9.)

Assistant Professor CADY.

11. ADVANCED SHAKESPEARE. C

A consideration of some of the more difficult problems of Shakespearean criticism, based upon the work of the preceding semester. (Eng. 9-10.)

Assistant Professor CADY.

13. THE PURITAN AGE. B

The literature of the seventeenth century will be studied in as much detail as time will permit. This course alternates with 9, and will be given in 1914-15. (Eng. 3.)

Assistant Professor CADY.

14. THE CLASSICAL PERIOD. B

A treatment of eighteenth century literature similar to that of seventeenth century literature in 13. This course alternates with 10, and will be given in 1914-15. (Eng. 3.)

Assistant Professor CADY.

15, 16. NINETEENTH CENTURY POETRY. B

A course conducted by means of lectures, assigned reading, and written tests. For lack of time, only the major poets of the period can be considered. (Eng. 3.)

Assistant Professor HARRINGTON.

17, 18. NINETEENTH CENTURY PROSE. B

A course similar to 15, 16, and alternating with it; to be given in 1914-15. (Eng. 3.)

Assistant Professor HARRINGTON.

19. The English Novel. B

A study on the basis of a text-book and class-room discussions, together with the reading of a representative work of each of the major novelists. (Eng. 3.)

Assistant Professor Harrington.

21. Advanced Composition. C

A study of special phases of the problem of composition. (Any two B courses.)

Assistant Professor Cady.

23. The Principles of Literary Criticism. C

A detailed study of the nature of literature and of its intellectual, emotional, and formal elements. (Eng. 3 or 4.)

Professor Wright.

25. The Principles of Poetics. C

This course alternates with 23, and will be given in 1914-15. (Eng. 3 or 4.)

Professor Wright.

VI. FINE ARTS

Assistant Professor Throop

Professor Sanford

Professor Burrage

1. Greek Art and Civilization

The instruction is given by lectures and stereopticon talks, supplemented by extensive reading on the students' part. Written tests come every two weeks. The department possesses many slides illustrative of every phase of Greek civilization, and the library contains the more important works on archeology. The art and civilization of Assyria, Egypt, and other nations whose work had a formative influence on the Greeks

are treated extensively by way of introduction to Greek art proper. *Open to all Juniors and Seniors.*

Professor BURRAGE.

2. ROMAN ARCHEOLOGY, ROMAN AND MEDIEVAL ART

The buildings and statuary of Ancient Rome and its colonies; an outline story of architecture, sculpture, and painting through the early Christian, Byzantine, Romanesque, Gothic, and Italian Renaissance movements, including the period of Raphael and Michael Angelo. The illustrations are by photographs and lantern slides. *Open to all Juniors and Seniors.*

Professor SANFORD.

3, 4. HISTORY OF ART FROM THE RENAISSANCE

Architecture, sculpture, and painting. The work of the first semester will cover the period from the Renaissance to the French Revolution. The work of the second semester will concern itself with nineteenth century art, including a study of the influence of William Morris and the spread of interest in decorative art in the home. A survey of contemporary schools and tendencies will also be included. Students electing Courses 3 and 4 must have taken Courses 1 and 2, or must satisfy the instructor of their fitness to pursue the work.

Assistant Professor THROOP.

NOTE: Courses 1 and 2 have been conducted for a number of years in connection with the work of the Greek and Latin Departments. The Department of Fine Arts, of which they are now made a part, concerns itself at present with historical development. The work as here outlined will go into effect in 1914-15. In 1913-14, Course 1 is omitted; Course 2 is given in the first semester, and a one-semester course in the History of Art from the Renaissance in the second semester. While Courses 1-4 are not at present graded, they will meet the requirements of a minor.

VII. FRENCH

Assistant Professor ROBINSON

Assistant Professor THROOP

1, 2. BEGINNERS' FRENCH. A

Elements of grammar; drill in pronunciation; reading and translation of easy prose; study of irregular verbs; dictation exercises; free reproduction of passages read.

Assistant Professor ROBINSON.

3, 4. INTERMEDIATE FRENCH. B

Thorough review of grammar; composition, and translation from English into French; sight translation and free reproduction. Much emphasis is laid upon the reading, in French, of easy texts; retroversion. (French 1-2; or two years of preparatory school French.)

Assistant Professor THROOP; Assistant Professor ROBINSON.

5, 6. CONTEMPORARY FRENCH. C

A course in modern prose, poetry, and the drama, supplemented by a study of some of the more representative French reviews and newspapers, with weekly exercises in writing French. (French 3-4; or three years of preparatory school French.)

Assistant Professor ROBINSON.

7, 8. FRENCH LITERATURE IN THE SEVENTEENTH CENTURY. C

The classical drama—Corneille, Molière, Racine; the poetry of La Fontaine and Boileau; French prose from Descartes to St. Simon. Given in 1915-16. (French 5-6.)

Assistant Professor ROBINSON.

NOTE: Courses 7-8 will alternate with 9-10 and 11-12.

9, 10. FRENCH LITERATURE IN THE EIGHTEENTH CENTURY. C

Montesquieu, Voltaire; Diderot and The Encyclopedists; The Revolution, and its bearing on literature; Rousseau and his philosophy; Le Sage, Marivaux, Beaumarchais. (French 5-6.)

Assistant Professor ROBINSON.

11, 12. FRENCH LITERATURE IN THE NINETEENTH CENTURY. C

The Romanticists; Realism and Naturalism; literary criticism—Chateaubriand, Sainte-Beuve, Taine; the modern drama. Given in 1914-15. (French 5-6.)

Assistant Professor ROBINSON.

13, 14. AN ADVANCED COURSE IN FRENCH SYNTAX. C

This course, for students planning to teach French, will consist of a critical study of the principles of syntax and the best methods of presenting these principles. Open only to Seniors. (French 5-6.)

Assistant Professor ROBINSON.

NOTE: In the Department of French, students of any class will be assigned to those courses for which, in the judgment of the instructor, they are best fitted.

VIII. GEOLOGY

Assistant Professor LYFORD

1. INTRODUCTORY PHYSIOGRAPHY. A

An introduction to earth science. The origin, development, and classification of land forms, and their influence upon organic nature. Practice in the use of topographic maps.

2. DYNAMIC AND STRUCTURAL GEOLOGY. A

Study of the atmospheric, aqueous, and organic agencies acting on and modifying the earth's crust. The rocks of the

earth; the structure of rock masses; stratification; dislocation and metamorphism. The course embraces several afternoon field trips to nearby points of interest. Given in 1913-14.

3. Historical Geology. B

History of the evolution of the earth and the organic kingdom. Illustrated by an extensive collection of fossils, maps, charts, and other material. Students are offered a few Saturday excursions to places of interest. (Geol. 2.)

4. Economic Physiography and Meteorology. B

Natural factors limiting the extent of industry, population, and civilization. Conservation of the land and its resources. The forest as a physiographic unit. A study of nature as a system of forces in dynamic equilibrium. This course should be elected by prospective forestry students and by those preparing to teach advanced geography in high schools. Given in 1913-14. (Geol. 1 or 2.)

5. Mineralogy and Petrology. C

Descriptive and determinative mineralogy; blowpipe analysis. The object is to gain familiarity with the common minerals, together with practice in their identification. (Geol. 2 and Chem. 1-2; or Chem. 3-4.)

Laboratory fee, $5.

6. Economic and Agricultural Geology. C

Principles of chemical geology; interaction of mineral solutions within the earth. The segregation of metalliferous minerals, and secondary enrichment of ore bodies. The principles are illustrated by the geology of some of the important American ore deposits. Rock disintegration, decay, and soil formation. Physical and agricultural properties of soils. Not given in 1913-14. (Geol. 5.)

7. Advanced Structural Geology. C

Study of the characteristics of igneous, sedimentary, and metamorphic rocks and their relation to the dynamics which

have produced the various structures of the earth's crust. (Geol. 2 and 5.)

8. Geology and Organic Evolution. C

A study of the geographic distribution of plants and animals as a basis for a consideration of the geological evidences and conditions for organic evolution in past ages. A history of ideas concerning the significance of fossils. Not given in 1913-14. (Geol. 3.)

IX. GERMAN

Professor Skillings

Mr. Davison

1, 2. Beginners' German. A

Essentials of phonetics. Drill in pronunciation and in comprehending the spoken language. Elements of grammar. Memorizing of idioms and poems. Dictation. Reading of simple prose.

Mr. Davison.

1a, 2a. Beginners' German. A

These courses come six times a week, their object being to give more thorough foundation in the elements than a three-hour course permits. They may be elected as two of the five courses required of Freshmen, and count six points towards the A. B. or B. S. degree.

Mr. Davison.

3, 4. Intermediate German. B

Rapid review of grammar. Sight reading. Conversation, free reproduction, and composition based on the texts read. Memorizing of idioms and poems. Study of synonyms and of word formation. Grammar drill. (Germ. 1-2.)

Professor Skillings.

5, 6. Scientific German. B

A course for those who wish the training that will enable them to consult works of reference in German. Assigned outside reading. (Germ. 1a-2a; or 3-4.)

Mr. Davison.

7. German Prose and Poetry; Practice in Writing Prose. C

Heine's Prose; selected poems of Goethe, Schiller, Heine, and others. Weekly exercises in writing German, with study of idioms and advanced syntax. Assigned outside reading. (Germ. 3-4.)

Professor Skillings.

8. Introduction to German Drama. C

Intensive study of selected dramas of Lessing, Schiller, Goethe, and others. Assigned outside rapid reading in the drama. (Germ. 7.)

Professor Skillings.

9, 10. Goethe's Life and Works. C

A study of Goethe's personality and influence based upon the study of his selected works. Assigned outside reading in Goethe's works not read in class. (Germ. 8.)

Professor Skillings.

11, 12. The German Drama Since Schiller. C

A study of selected masterpieces of Kleist, Grillparzer, Hebbel, Hauptmann, Sudermann, and others. The development of the drama in the nineteenth century is traced. Assigned reading in the drama. These courses alternate with 9-10, and will be given in 1914-15. (Germ. 8.)

Professor Skillings.

13, 14. Survey of German Literature to the Classic Period. C

A course for advanced students, especially those who intend to teach German, designed to give a comprehensive knowl-

edge of the great movements and the leading ideas in German literature till Goethe. Assigned outside reading. Courses 13-14 alternate with 15-16, and will be given in 1914-15. (Germ. 9-10 or 11-12; or, for Seniors, Germ. 8.)

Professor SKILLINGS.

15, 16. CONVERSATION; PRACTICE IN WRITING; TEACHING METHODS. C

A course for advanced students, especially those who intend to teach the language. Assigned outside reading. (Germ. 9-10 or 11-12; or, for Seniors, Germ. 8.)

Professor SKILLINGS.

NOTE: In the Department of German, students of any class will be assigned to those courses for which, in the judgment of the instructor, they are best fitted.

X. GREEK

Professor BURRAGE

1. SELECTIONS FROM LYSIAS AND HERODOTUS. B

In connection with the study of the text there are frequent exercises in composition, and a thorough review of forms and syntax.

2. HOMER. B

The *Odyssey*. Those parts of the epic that are of most vital interest are carefully translated and studied. The ethical import is kept carefully in view, and the conditions of the life described in the poem are illustrated by a consideration of archeological discoveries. Facility in reading is promoted by frequent exercises in sight translation.

3. SELECTIONS FROM THE LYRIC POETS; EURIPIDES: IPHIGENIA AMONG THE TAURIANS. B

An introduction to other forms of poetry than the epic, and to other kinds of meter than the dactylic hexameter. The development in poetical form from Homer to Euripides is

traced. Among the authors from whom extracts are made are Archilochus, Alcaeus, Sappho, Anacreon, Simonides, and Bacchylides. In connection with Euripides, lectures are given on the origin, history, and purpose of the drama. (Greek 1-2.)

4. Plato and Xenophon. B

Apology, Crito, selections from the *Phaedo* of Plato; the *Memorabilia* of Xenophon. A study in the life, character, and opinions of Socrates, as he is portrayed by his two friends and disciples. Elementary statement of a few of the problems of philosophy that Socrates raised and tried to deal with. Discussion of the position occupied by Socrates and Plato in the world of philosophy. (Greek 1-2.)

5. Sophocles and Aeschylus. C

The *Oedipus Tyrannus* and *Electra* of Sophocles; the *Prometheus* and *Persians* of Aeschylus. (Greek 3-4.)

6. Aeschylus, Euripides, and Aristophanes. C

Selections from the *Oresteia* of Aeschylus; the *Medea* of Euripides; the *Frogs* of Aristophanes. Courses 5 and 6 give a fairly complete idea of the four great dramatists of Athens, and lay a foundation for courses in the modern drama or in ethics. External changes in the drama are noted, and the growth of religious concepts is traced. The remaining plays of the authors are read by the student in translation, and reports are required on the more important ones. To be given in 1914-15. (Greek 5.)

7. Plato's Republic. C

(Greek 3-4.)

8. Aristotle's Ethics. C

Courses 7 and 8 alternate with 5 and 6. They afford students of philosophy and ethics a chance to read in the original tongue the two masterpieces of the two greatest minds of antiquity. The charm of the *Republic* as literature will re-

ceive special emphasis, and the selections will include all the passages of startling originality. (Greek 7.)

9. The Anabasis and the Iliad. C

For students who plan to teach Greek. Familiarity with the style of Xenophon and Homer is promoted by copious reading. Careful distinction is made between the essentials and the non-essentials of the language, and an attempt is made to construct such a teaching scheme as will save the pupil's time and maintain his interest. The leading text-books are compared and criticised. Methods of teaching vocabulary, grammar, reading at sight, and translation are discussed. (Two years of College Greek.)

10. The Greek Drama in Translation

This course requires no knowledge of Greek. It lays a foundation for the study of the modern drama. The plays read either have value of their own or have exercised an influence on later writers.

Open to all Juniors and Seniors.

12. Greek Poetry in Translation (exclusive of the Drama).

This course affords an opportunity to read the most spirited and adequate modern translations of poetry of such divergent types as Epic, Lyric, Pastoral, and Occasional. Homer, Pindar, Sappho, Theocritus, and the writers of the Anthology are among the authors read.

Open to all Juniors and Seniors.

13, 14. Beginners' Greek. A

A course for those who wish to begin Greek in college. During the first semester the elements of the language are acquired from some one of the First Greek Books. In the second semester, portions of the *Anabasis* are read, with easy selections of more general interest. The course must be continued through two semesters, and should fit the student to take up the regular Freshman Greek the following year.

XI. HISTORY

Assistant Professor WETHERELL

Assistant Professor ABBOTT

Assistant Professor WHITE

1. MEDIEVAL EUROPEAN HISTORY. A

A study of the progress of Western Europe in civilization and political organization from the days of the Roman Empire to the sixteenth century. Courses 1 and 2 cover periods of peculiar interest in the development of nations of the first importance, and are of especial value to all who wish to take work in economics, political science, history, or pedagogy.

Assistant Professor ABBOTT.

2. MODERN EUROPEAN HISTORY. A

A continuation of the political history of Europe from the sixteenth century, with some attention to social, industrial, and economic conditions. The course is introductory to some of the greatest political and international problems of the present time. The influence of England is emphasized and the connections with American history made clear.

Assistant Professor ABBOTT.

3. AMERICAN HISTORY TO 1789. B

A broad outline which may be taken as an end in itself, or as a basis for more intensive work. A good preliminary knowledge of European—especially English—history is considered essential. (Hist. 1-2.)

Assistant Professor WETHERELL.

4. AMERICAN HISTORY FROM 1789. B

A continuation of 3 to the present time. (Hist. 1-2.)

Assistant Professor WETHERELL.

9. Expansion of the American People to 1840. C

An advanced course for qualified students. Geography and history are closely correlated. Physical geography and primitive conditions of America; European colonization as influenced by natural conditions; shifting of the frontier toward the West, with variations; effects of the struggle with New World conditions on the European settlers; successive stages of life left by advancing frontiers; acquisitions of territory, geographic areas and sectionalism; local and national problems growing out of expansion. (Hist. 3-4.)

Assistant Professor Wetherell.

10. Expansion of the American People from 1840. C

A continuation of 9 to the present time. Courses 9 and 10 alternate with 11 and 12. (Hist. 3-4.)

Assistant Professor Wetherell.

11. The American Civil War, 1850-1877. C

A broad treatment of the Civil War as a transition period in American History; military and naval events are subordinated, economic, social, and political developments emphasized. To be given in 1914-15. (Hist. 3-4.)

Assistant Professor Wetherell.

12. American Political History Since 1877. C

A study of political issues, party organizations, and governmental development in the United States since the Civil War. Emphasis is placed on the interpretation of election returns in the light of economic and social conditions. To be given in 1914-15. (Hist. 3-4.)

Assistant Professor Wetherell.

13. Method in History

The philosophy of history, and methods, for advanced students and prospective teachers. The nature and essential elements of history; relation of history to other subjects; forms

of historical materials; methods of criticising and using sources; bibliography; working libraries; source-books; text-book criticism; maps, charts, and other aids; elementary and advanced phases of historical study; the organization of historical knowledge. (Two B courses in History.)

Assistant Professor WETHERELL.

15. ANCIENT HISTORY. B

A survey of the development of ancient civilization with special emphasis on the history of Greece and Rome. Much attention is paid to the use of sources, as being of extreme importance in supplying the proper view-point and stimulus, especially to those who are to teach the Ancient History in high schools. (Hist. 1.)

Assistant Professor WHITE.

16. INDIVIDUAL RESEARCH. C

In this course the student discovers and solves his own problems, with the aid of suggestions from the instructor. Limited to those who have shown special ability in other courses of the department. (Hist. 13; average of 85; special approval of instructor.)

Assistant Professor WETHERELL.

NOTE: Courses 5, 6, 7, and 8 are reserved for special courses in European History not to be given in 1913-14.

XII. LATIN

Professor SANFORD

Assistant Professor WHITE

1. LIVY. A

For translation such chapters of Books XXI-XXXIX are selected as to constitute a fairly comprehensive story of the second Carthaginian war. Question and answer in Latin gives the student a direct knowledge of simple form and syntax. Prose exercises are required, based on the text. These include a review of elementary principles of Latin

writing, study of vocabulary, practice in handling verb forms, and the development and use of cases.

Required of all A. B. Freshmen. Assistant Professor WHITE.

2. CICERO. A

Selections from the *Letters,* and reading of *De Amicitia.* The historical outline takes up the story of the struggle between Republic and Empire and runs contemporaneously with the fortunes of Caesar and Cicero as written in the *Letters.* The reading of *De Amicitia* will be made in close connection with a weekly study of the use of mode in Latin. To familiarize the student with the living language, part of the recitation will be conducted in Latin.

Required of all A. B. Freshmen. Assistant Professor WHITE.

3. PLINY THE YOUNGER. B

Selections from the *Letters* presenting a large number of references to life and customs are chosen for translation. The course is intended to bring the student into a closer touch with the daily life of the Romans than given in the authors previously read. Preparatory to all of the translation courses following. (Latin 1-2.)

Professor SANFORD.

4. HORACE. B

Selected *Odes* and *Epodes.* By comparison of the odes with lyrics in Latin and other languages the class attempts to estimate the place of Horace among the poets. The debt of English poetry to Horace is continually referred to, and borrowed or suggested phrases, imitations, and translations in our own lyrics are daily sought in illustration. Very careful preparation of note-books is required. (Latin 3.)

Professor SANFORD.

5. A STUDY IN LATIN VERSE. C

Fragments preserved from the early writers are quoted to

point out the beginnings of poetry. Selections from Catullus, Horace, Vergil, Ovid, Tibullus, Propertius, and others are read to show Latin verse in its perfection. A few poems of the Silver Age are given to indicate the changes of form and style to medieval and monkish rhymes. The hymnology of the early Church. (Latin 4.)

Professor SANFORD.

6. ROMAN COMEDY. C

The translation of the *Captivi* of Plautus and the *Andria* of Terence, with rapid readings from other comedies. (Latin 3 or 4.)

Professor SANFORD.

7. TACITUS. C

The *Germania* and *Agricola.* Comparison of the style of Tacitus with that of other writers of his time. A study of the Roman colonial system. Outline of the history of the later Empire, with brief investigation into the subject of the influence of Rome on the northern tribes and, incidentally, our own inheritance of law and custom from them. Library reading and the study of photographs of Roman remains in Germany and England. To be given in 1914-15. (Latin 4.)

Professor SANFORD.

8. AN HISTORICAL STUDY IN TACITUS. C

An intensive study of some period or topic from the early Roman Imperial Era, with the text of the *Annals* as a base. The aim is to develop in the student a spirit of historical criticism, and to help him to use historical material methodically, especially sources. The course is particularly valuable to those who may teach Ancient History. (History 15.)

Assistant Professor WHITE.

9. A STUDY IN ROMAN PHILOSOPHY. C

Readings from the *Tusculan Disputations* of Cicero, *De Rerum Natura* of Lucretius, with extracts from Seneca, Marcus Aurelius and Boethius. (Latin 4.)

Professor SANFORD.

10. Advanced Latin Prose. C

An investigation of vocabularies found in prominent Latin authors of both prose and poetry; a comparison of the periodic sentence with the loose structure of the English; examination of the diction of the authors used in the preparatory work; the writing of detached sentences and of connected discourse. To be given in 1914-15. (One C course.)

Professor Sanford.

11. Vergil. C

The reading of selections from the Aeneid, the Eclogues, and the Georgics, a study in literature rather than syntax; Vergil's personality and peculiar fame; his place among the world's poets; the debt of our own literature to the Aeneid. To be given in 1915-16. (Latin 4.)

Professor Sanford.

12. The Teaching of Preparatory Latin. C

A study of methods and authors used; the relative value of vocabularies, grammatical drill, and sight reading; examination of text-books; Caesar and the substitute authors; the Latin element in English speech, Grimm's law; alternate drifts toward the Latin and toward the Saxon forms; colloquia; tests; the necessity of making Latin a live language; quality versus quantity; literary appreciation. (One C course.)

Professor Sanford.

13. Outlines of Latin Literature. C

A review of all the authors from Ennius to Boethius; reading of translations; an attempt to form an estimate of the place and value of the literature as a whole, and the tendencies toward appreciation and depreciation at the present time; the passing of the Latin into the Italian, the French, and the other Romance languages; the jingles and the rhymes of the monks; attempts to revive the vernacular. (One C course.)

Professor Sanford.

14. Roman Origins

An outline story of our debt to the Roman nation in word making, syntax, literary style and content, myth and tradition, phrases and saws, ritual, government, law and court proceedings, architecture, engineering and road-making, miscellaneous arts and professions. A summary of the reasons for the present place of Roman life and Latin in cultural and practical education. No knowledge of the language is required. Course 14 will become a first-semester course in 1914-15.

Open to all Seniors and Juniors. Professor Sanford.

XIII. MATHEMATICS

Assistant Professor Cresse

Assistant Professor Paine

1. Solid Geometry and Introduction to Trigonometry. A

To be given in 1914-15.

Required of all Freshmen who do not enter with credit for Solid Geometry. Assistant Professors Cresse and Paine.

2. Plane Trigonometry and Algebra. A

To be given in 1914-15.

Required of all Freshmen who do not enter with credit for Solid Geometry. Assistant Professors Cresse and Paine.

1a. Plane and Spherical Trigonometry. A

Required after 1913-14 *of all Freshmen who enter with credit for Solid Geometry.* Assistant Professor Paine.

2a. Algebra. A

Properties of quadratics; complex numbers; binomial formula; permutations and combinations; graphical investigaton of equations of the first, second, and third degree; theory of equations; determinants.

Required of all Freshmen in 1913-14, *and thereafter of all Freshmen who enter with credit for Solid Geometry.* Assistant Professor PAINE.

3. LOGARITHMS AND TRIGONOMETRY. B

Theory and use of logarithms; trigonometric analysis; solution of triangles; application to the data of a surveyor. (Solid Geom.)

Assistant Professor CRESSE.

4. PLANE ANALYTIC GEOMETRY. B

Loci and their equations in Cartesian coordinates; transformation of coordinates; the line, circle, parabola, ellipse, hyperbola; the general equation of the second degree; poles and polars; use of polar coordinates. (Math. 2, 2a, or 3.)

Assistant Professor CRESSE.

5. DIFFERENTIAL CALCULUS. C

(Math. 4.)

Assistant Professor CRESSE.

6. INTEGRAL CALCULUS. C

(Math. 5.)

Assistant Professor CRESSE.

7. DIFFERENTIAL EQUATIONS. C

A problem course in ordinary equations of the first order, ordinary linear equations of higher order, systems of ordinary equations of the first order and first degree, and linear partial equations of the first order. "Standard Forms." Throughout the course emphasis is placed on the geometric meaning and physical application of the equations. (Math. 6.)

Assistant Professor CRESSE.

8. ADVANCED GEOMETRY. C

Selected topics and problems in solid analytic geometry. Methods of modern analytic geometry; homogenous coordinates; abridged notation; investigation of the properties of

curves by recourse to inversion; polar reciprocation and projection. (Math. 4.)

Assistant Professor CRESSE.

9, 10. THE DIFFERENTIAL EQUATIONS OF MATHEMATICAL PHYSICS. C

The Newtonian and logarithmic potential functions. Surface distributions; Greene's theorem; attraction of ellipsoids; Fourier's series; spherical and cylindrical harmonics. Applications of the foregoing to electrostatics, the steady flow of heat and electricity, and acoustics. Mathematical theory of the cooling of the earth, and analysis of the vibrations of piano, harp, and violin strings, and elastic membranes. Given in 1913-14 and alternate years. (Math. 6 and Physics 4.)

Assistant Professor PAINE.

11, 12. THE THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. C

The aim in this course is through assigned reading and class-room discussion to acquaint the student with all the generally employed conceptions of higher analysis. Problems are given which tax the ingenuity of the student less than they require a mastery of the theory. (Math. 6.)

Assistant Professor CRESSE.

XIV. MUSIC

Assistant Professor ROYCE

1, 2. HARMONY. A

Consonant and dissonant, diatonic and chromatic harmony, keyboard work, and elementary composition are included in this course, which is the first step toward practical music-writing.

3, 4. MUSICAL FORM. B

An exposition, through lectures with practical illustrations, of the scientific and esthetic principles governing musical construction.

5, 6. History of Music. C

A course explanatory of the nature, purpose, and development of music. Emphasis is placed likewise upon a discussion of the lives and work of the great masters.

7, 8. Counterpoint. C

A study of the simultaneous combination of melodies from the standpoint of the composer. Consideration of the various species and allotments. Some knowledge of harmony is presupposed on the part of those electing counterpoint.

9, 10. Practical Course

This will consist of private lessons in piano playing, the hours to be arranged for individually.

Two half-hour lessons or one one-hour lesson a week. Open to all students. Fee, $40 for each semester.

The courses in the theory and history of music (1-8) will receive credit towards a degree and are subject to no additional fee; for private lessons (9-10) no credit towards a degree will be allowed. Students wishing to elect courses in the department of music must have some knowledge of the elements of musical notation and must satisfy the instructor of their fitness to pursue the special courses chosen.

XV. PEDAGOGY

Professor Collins

Professor McFarland

1. History of European Education. A

Educational views and customs in ancient, medieval, and modern times. School life in Greece; Graeco-Roman schools and schoolmasters; decline of classical learning; rise of church control; schools of the Middle Ages; educational significance of the Renaissance and the Reformation; genesis of modern educational ideals. History 1-2 are desirable preliminary courses.

Professor Collins.

2. Psychology of Childhood. A

Ways of studying the physical and mental development of children; the nervous system and its functions; the dawning of conscious life; development of senses and their part in education; steps in mental development; the process of learning; types of mental functioning; the psychological basis of method.

Professor Collins.

3. Psychology of Adolescence. B

A study of the period of adolescent development and of the needs of adolescence. The course aims to present the known facts of the nature and development of the mind and physical organs during adolescence, in order to place the prospective teacher in sympathetic contact with high school students. (Ped. 2 or Phil. 3.)

Professor McFarland.

4. American Education. B

Lectures on the evolution of the public school system in its elementary, secondary, and collegiate features; with detailed studies of the present organization and current problems of education in the United States, and students' reports on comparisons drawn from contemporary European schools. (Ped. 1, 2, or 3.)

Professor Collins.

5. Principles of Education. B

A general introduction to pedagogy from the genetic point of view, defining education, and tracing its bases in biology, physiology, psychology, and epistemology. After 1913-14 the course will include a study of Herbartian theory and Course 9 will be discontinued. (Ped. 1, 2, or 3, or Phil. 1 or Zoöl. 1.)

Professor Collins.

6. Methods of Teaching. B

Elements of general method; the method of the recitation;

how to study; efficient use of the materials of the classroom; practice in class teaching. A course intended primarily for those preparing to teach in high schools. (Ped. 2 or 3.)
Professor McFarland.

7. High School Administration. C
The organization and management of secondary schools; hygienic conditions; the curriculum; the relation between principal and assistants; standards of excellence in high school work; proper utilization of the school plant and equipment; school law. (Any B course in Ped.)
Professor McFarland.

8. Secondary Education. C
Studies in special method relating to high school languages, history, science, and mathematics; a consideration of the value, the content, the problems, and the methods of teaching special subjects; the teacher's preparation; necessary school equipment; standards of excellence; practice teaching in class. (Any B course in Ped.)
Professor McFarland.

9. Theory of Education. C
An introductory course dealing with topics fundamental to education, such as the nature and meaning of education in their individual and social aspects; bases of education; infancy; heredity and environment; adolescence and its needs; the educational process; and the principles of teaching. Not given after 1913-14. (Any B course in Ped.)
Professor McFarland.

10. Rural School Supervision. C
A discussion of the problems of supervision with especial reference to the superintendent's functions in training and improving teachers. A course for men intending to enter upon the work of educational management. Students wishing to take this course must secure the permission of the instructor. This will be made a two-semester course in 1914-15. (Any B course in Ped.)
Professor McFarland.

XVI. PHILOSOPHY

Assistant Professor CUNNINGHAM

1. LOGIC. A

A study of the principles underlying correct reasoning. Interpretation of propositions; analysis of the various types of reasoning. Practice in the construction and criticism of arguments. The aim of the course is to cultivate in the student a habit of independent thinking, and to enable him to detect fallacies and correct them.

2. INTRODUCTION TO PHILOSOPHY. B

This course deals in an elementary way with the fundamental problems of science and philosophy. The implications of the sciences for a theory of reality are studied, the philosophical bearings of the theory of evolution being considered in some detail. (Phil. 1.)

3. GENERAL PSYCHOLOGY. A

Introductory study of the problems of normal psychology. The central nervous system; sensations; memory; imagination; association of ideas; reasoning; the emotions; the self. Reading in text supplemented by elementary experiments.

4. ADVANCED PSYCHOLOGY: STUDIES IN ATTENTION. C

This course aims to study in an exhaustive manner the most essential characteristic of consciousness, namely, attention. Some of the problems dealt with are: the mental effects of attention; the conditions of attention; the methods of measuring attention; attention and interest; attention in memory; the physiology of attention; theories of apperception in relation to attention; attention and the self; attention and education. (Phil. 3, or Ped. 2 or 3.)

5. ETHICS IN HISTORY. B

A study of history as past ethics. Investigation of the ethical ideals that have manifested themselves in the historical devel-

opment of the great nations, both ancient and modern. The aim of the course is to give the student an historical background on the basis of which he may deal more intelligently with the moral problems that daily confront him. (Hist. 1-2.)

6. Systematic Ethics: Studies in Ethical Theory. C

A rather detailed investigation of the great ethical theories that have arisen in the course of the development of Western thought. The fundamental doctrines of hedonism, utilitarianism, and institutionalism will be studied. The theory of self-realization will also be discussed. Attention will be devoted primarily to the ethical writings of Bentham, J. S. Mill, Kant, and Green. (Phil. 5 or 8.)

7. Eighteenth and Nineteenth Centuries

The aim of this course is to enable the student to get a comprehensive view of these two important centuries of our civilization. The period is treated from the points of view of biology, political science and government, pedagogy, philosophy, ethics, and English, French, and German literature. The course is given conjointly by instructors from these several departments.

Open to all Seniors.

8. History of Modern Philosophy. B

A general review of the development of modern thought from the seventeenth century. Detailed study of the Rationalists, Empiricists, Kant, and Hegel. Post-Hegelian tendencies are indicated, and the present status of philosophical and ethical inquiry outlined so far as time permits. A continuation of Phil. 7, although it may be taken by those who have not had the latter. To be given in 1914-15. (Phil. 1 or 5, or Ped. 1.)

9. History of Greek and Medieval Philosophy. B

General survey of philosophical conceptions from the sixth

century, B. C., to the beginning of the modern era. Greek philosophy is dealt with in some detail, attention being fixed primarily upon Socrates, Plato, and Aristotle. The period of the Middles Ages is passed over more rapidly, but enough time is devoted to it to enable the student to grasp the different tendencies. The views of Augustine, Anselm, Thomas Aquinas, and Scotus are considered. To be given in 1914-15. (Phil. 1 or 5, or Ped. 1.)

10. Studies in the Philosophy of Bergson. C

Among living thinkers no one is more generally known or more influential in the thought of the present than Bergson. This course gives the student a systematic introduction to the fundamental principles of the Bergsonian philosophy. The works which will be read and discussed are: *Time and Free Will, Matter and Memory,* and *Creative Evolution.* (Any two B courses in Phil.)

XVII. PHYSICS

Mr. Francis

(*in the absence of Professor Bryant.*)

1. General Physics. A

Fundamental principles of kinematics; simple harmonic motion; inertia; gravitation; work and energy; elasticity; properties of liquids and gases; waves; sound; reflection, refraction, interference, diffraction, and polarization of light waves, and spectrum analysis.

2. General Physics. A

Theory of heat; calorimetry; transference of heat; thermal expansion; change of state; nature of heat; the earth's magnetic field; magnetic induction; electrostatic induction, potential, and capacity; production of electric currents; electromotive force; electrical resistance; measurement of current; chemical, heating, and magnetic effects of the electric current. (Phys. 1.)

3. Light. B

An advanced course, for students who wish more knowledge of the subject than can be obtained from general physics. The laws of reflection and of refraction, with their application to optical instruments; the wave theory of light; the spectrum and its teachings; the phenomena of radiation, absorption, dispersion, interference, and diffraction are some of the topics considered. Not given in 1914-15. (Phys. 1-2, and Math. 3.)

5. Electricity and Magnetism. B

An advanced course covering more thoroughly many of the topics studied in the corresponding work in general physics, together with some additional topics, such as the discharge of electricity through gases, electrons, radio-activity, and wireless telegraphy. To be given in 1914-15. (Phys. 1-2.)

6. Physical Measurements. C

Elementary theory and practice of physical manipulation. Laboratory work in the measurements of length, mass, time, velocity, linear and angular acceleration; the verification of the laws of equilibrium of forces; the determination of coefficients of elasticity; the density of solids, liquids, and gases; experiments in sound. A complete record of every experiment is required, giving the apparatus used, the measurements taken, and the results obtained. (Phys. 1-2.)

Laboratory fee, $5.

8. Physical Measurements. C

Measurements of thermal expansion, specific heat, latent heats of fusion and of evaporization. In electricity, fields of force, electric resistance, electromotive forces, and strengths of current are measured. The laws of reflection and refraction of light waves, the formation of images by mirrors and lenses are studied, and indices of refraction and lengths of light waves are measured. (Phys. 7.)

Laboratory fee, $5.

10. ASTRONOMY. B

The celestial sphere; astronomical instruments; determination of latitude, longitude, and time; the earth as an astronomical body; the moon's motions and physical characteristics; the sun's physical characteristics; revelations of the spectroscope; eclipses; planets; comets; stars and nebulae. (Phys. 1-2.)

XVIII. POLITICAL SCIENCE

Assistant Professor ABBOTT

Assistant Professor WETHERELL

GOVERNMENT

1. ENGLISH GOVERNMENT. A

A description of the present working English government, together with sketches of its historical development. A good general knowledge of English history—as much as may be gained in History 1 and 2—is essential. This course furnishes a desirable introduction to American Government.

Assistant Professor WETHERELL.

2. AMERICAN GOVERNMENT. A

A rapid survey of the whole field, national, state, and local. Descriptive, with sketches of historical development. This course, together with Gov. 1, lays the basis for the more detailed and technical courses in the department. A good knowledge of American history is essential.

Assistant Professor WETHERELL.

3. ELEMENTS OF POLITICAL SCIENCE. B

The origin and development of government and states, their forms, departments, and functions. (Hist. 1, 2, 3, or 4, or Gov. 1 or 2.)

Assistant Professor ABBOTT.

4. EUROPEAN GOVERNMENTS. B

Particular attention is given to the national governments

of France, Germany, Italy, and Switzerland. (Hist. 1-2, or Gov. 1-2.)

Assistant Professor ABBOTT.

5. MUNICIPAL GOVERNMENT. B

The various forms, functions, and powers of city governments in the United States. (Gov. 2, or Hist 2.)

Assistant Professor ABBOTT.

LAW.

6. CONSTITUTIONAL LAW. C

A study of the principles and growth of the constitutional law of the United States. (Hist. 4, or Gov. 2.)

Assistant Professor ABBOTT.

7. BUSINESS LAW.

A brief survey of the rules of law most commonly involved in ordinary commercial transactions; especially contracts, sales, agency, bailments, and negotiable instruments. An elementary and practical course designed primarily for students who intend to engage in business or in professions other than the law.

Open to all Juniors and Seniors. Assistant Professor ABBOTT

8. INTERNATIONAL LAW. C

The nature, sources, and development of the rules governing the relations of modern civilized states in war and peace, with some consideration of recent modifications of the same, especially of the Hague Conferences of 1899 and 1907. (Gov. 1, 2, 3, 4, or 6.)

Assistant Professor ABBOTT.

9, 10. ELEMENTARY PRINCIPLES OF LAW. C

This course is especially valuable for students who expect to pursue the study of law, and for those who plan to take advanced work in Government or History. (Gov. 3 or Gov. 7.)

Assistant Professor ABBOTT.

XIX. HOME ECONOMICS

(*For Students in the Women's College*)

MISS WELLS

1, 2. FOOD: ITS SELECTION AND PREPARATION. A

The classification, composition, and function of foods. The principles involved in the application of heat to food constituents, and the various processes applied in the preparation of foods. Recitations and laboratory work.

Laboratory fee, $5 for each semester.

3. NUTRITION AND FOOD ECONOMY. B

The nutritive value and place in the diet of foods. Comparative cost of foods and the processes of preparation. Advanced study of cookery. The preparation, serving, and cost of meals. Lectures, recitations, and laboratory work. (H. E. 1-2; and H. Chem. 1-2.)

Laboratory fee, $5.

4. HOUSEHOLD HYGIENE. B

Food products, their manufacture, preservation, and adulteration. Legislation in regard to pure foods, and its results. The care of food in the home. Household sanitation, including building, drainage, water supply, heating, plumbing, cleaning, and ventilating a house. (H. E. 3 and Biol. 3.)

5. TEXTILES. A

The history and processes of textile manufacture. The study of quality and cost of materials.

6. DIETETICS. C

The principles of nutrition; the chemistry and physiology of digestion. A study of diets under differing conditions; children's diets; school lunches; invalid cookery, and detailed work in the preparation of balanced meals. Recitations and laboratory work. (H. E. 3; Zoöl. 1; H. Chem. 4.)

Laboratory fee, $5.

7. HOUSEHOLD MANAGEMENT. C

Economic function of woman and the home; evolution of the home; organization of the household; furnishing and decoration; buying of supplies; accounting and division of the income; care of the house. (H. E. 4.)

9, 10. METHODS. C

Lectures on the methods of teaching Home Economics. Planning courses of study, and making lesson plans. Studies in equipment. Practice work in teaching high school classes.

XX. HOUSEHOLD CHEMISTRY

(For Students in the Women's College)

Assistant Professor LYFORD

1. GENERAL CHEMISTRY. A

A course in elementary chemistry, in which the fundamental principles are developed with special reference to the problems of daily life.

Laboratory fee, $5.

2. QUALITATIVE ANALYSIS. A

Mainly by means of laboratory work, the student is directed in the application of the more important methods for detecting the nature and composition of substances encountered in household experience. Methods and simple apparatus are devised by the use of which it is possible to test the approximate purity of the various materials of household occurrence. (H. Chem. 1.)

Laboratory fee, $5.

3. ORGANIC CHEMISTRY. B

A study of the basal conceptions of the chemistry of the carbon compounds. Those portions of the subject are emphasized which contribute directly as a preparation for 4. (H. Chem. 2.)

Laboratory fee, $5.

4. Chemistry of Foods and Nutrition. B

Physiological chemistry of fats, carbohydrates, proteins, and the inorganic foodstuffs. Metabolism, and the chemical basis of food values. The laboratory work consists of a study of the properties of the various food principles together with the more important tests, and changes such as fermentation, digestion, putrefaction, etc. (H. Chem. 3.)

Laboratory fee, $5.

Note: Women may pursue the above courses as a minor and may continue their studies in Chemistry by electing courses after 4 in Department II.

THE SUMMER SESSION

THE FACULTY OF 1913

INSTRUCTORS FROM MIDDLEBURY COLLEGE

JOHN MARTIN THOMAS, D.D., LL.D.
President

RAYMOND MCFARLAND, A.M.
Professor of Secondary Education. Director of the Summer Session

MYRON REED SANFORD, A.M., L.H.D.
Professor of Latin

WILLIAM SARGENT BURRAGE, PH.D.
Professor of Greek

ARCHIBALD DARIUS WETHERELL, A.M.
Assistant Professor of History

DUANE LEROY ROBINSON, A.M.
Assistant Professor of French

G. WATTS CUNNINGHAM, PH.D.
Assistant Professor of Philosophy

FRANK WILLIAM CADY, A.M., B.LITT. (OXON.)
Assistant Professor of English

RAYMOND HENRY WHITE, A.M.
Assistant Professor of Latin

CHAUNCEY ALLAN LYFORD, B.S., A.M.
Assistant Professor of Geology

GEORGE PORTER PAINE, A.M.
Assistant Professor of Mathematics

VERNON CHARLES HARRINGTON, L.H.D.
Assistant Professor of English

PERLEY CONANT VOTER, A.M.
Assistant Professor of Chemistry

EFFIE PARMELEE WELLS, M.S.
Instructor in Home Economics

INSTRUCTORS FROM OTHER INSTITUTIONS

FRANK EUGENE HOWARD, PH.D.
Professor of Education, Nebraska Wesleyan University

RAY WALDRON PETTENGILL, PH.D.
Instructor in German, Harvard University

HARLAN TRUE STETSON, PH.B., SC.M.
Instructor in Physics, Dartmouth College

CHARLES EVERETT HESSELGRAVE, PH.D.
Pastor Congregational Church, Chatham, New Jersey

WILLIAM JACKSON LEONARD
Associate Professor of Fine Arts, West Virginia University

DONALD H. WHEELER, A.M.
Master in Public Speaking, Lawrenceville School, N. J.

ANNE MAY PIERCE
Director of Drawing and Manual Training, North Andover, Mass.

MINNIE HAYDEN
Steinert Hall, Boston

ROBERT JAMES SPRAGUE, PH.D.
Head of the Division of Humanities and Professor of Economics and Sociology, Mass. Agricultural College

GENERAL STATEMENT

THE Summer Session is organized to meet the wants of experienced teachers and advanced students. Its aim is to afford opportunity for teachers to secure better academic and professional training, to allow college students to continue work for the bachelor's degree, and to encourage graduate students in their work towards a higher degree. To these ends students are grouped in three sections according to their purpose in pursuing courses and their qualifications for obtaining credits.

All courses are open to teachers and others who are qualified to take them, and entrance examinations are not required.

Students completing satisfactorily the course of six weeks will be given a Summer Session certificate indicating the work done. These certificates are often accepted by examiners in lieu of required examinations.

THE MASTER'S DEGREE

To obtain the degree either of Master of Arts or of Master of Science, thirty credits, representing one year's work in residence, are necessary. The rule as to securing the Master's degree through work in the Summer Sessions will be found in Graduate Work, Section 3.

RURAL LIFE CONFERENCE

A Rural Life Conference, the first of its kind in the State of Vermont, was held in connection with the Summer Session of 1913. The purpose of the conference was to develop rural leadership and to stimulate citizens in their endeavors to uplift rural communities. The sessions of the conference continued for five days and were under the leadership of Prof. Robert J. Sprague, of the Massachusetts Agricultural College. Addresses were given by representatives of the Inter-church Federation of Vermont, the United States Department of Agriculture, the State Board of Health, the Board of Library Commissioners, the State Board of Education, the State Board of Agriculture, the County Work of the Young Men's Christian Association,

the State Industrial School, the State Grange, and the Summer Session.

Preparations are being made for a second Rural Life Conference to be held in connection with the Summer Session of 1914 during the latter part of July. Further announcement will appear in the prospectus of the Summer Session.

COURSES OF INSTRUCTION, 1913

At the fifth Summer Session, held July 1 to August 8, 1913, the following courses of instruction were offered:

1. Principles of Education	*Professor* McFarland
2. Problems in Secondary Education	*Professor* McFarland
3. General Psychology	*Assistant Professor* Cunningham
4. Rural Pedagogy	*Professor* Howard
5. The Training of Children	*Professor* Howard
6. Composition	*Assistant Professor* Cady
7. The Drama	*Assistant Professor* Cady
8. Robert Browning	*Assistant Professor* Harrington
9. Principles of Style	*Assistant Professor* Harrington
10. Principles of Expression and Public Speaking	*Mr.* Wheeler
11. Literary Interpretation	*Mr.* Wheeler
12. Beginning French	*Assistant Professor* Robinson
13. Elementary French	*Assistant Professor* Robinson
14. French Literature in the Seventeenth Century	*Assistant Professor* Robinson
15. Beginning German	*Dr.* Pettengill
16. German Conversation	*Dr.* Pettengill
17. German Drama in the Eighteenth Century	*Dr.* Pettengill
18. Roman Architecture	*Professor* Sanford
19. Teachers' Cæsar	*Professor* Sanford
20. Cicero	*Assistant Professor* White
21. The Greek Drama in Translation	*Professor* Burrage
22. The Gospels in Greek	*Professor* Burrage
23. Beginning Hebrew	*Dr.* Hesselgrave
24. History for Teachers	*Assistant Professor* Wetherell
25. Seminar in History	*Assistant Professor* Wetherell

26. Ancient History	*Assistant Professor* White
27. The Background of the Gospels	*President* Thomas
28. Making of the New Testament	*Dr.* Hesselgrave
29. Studies in the Development of the Religion of Israel	*Assistant Professor* Cunningham
30. The Old Testament in the Light of Archeology	*Dr.* Hesselgrave
31. Nature Study	*Assistant Professor* Lyford
32. Practical Physiography	*Assistant Professor* Lyford
33. General Inorganic Chemistry	*Mr.* Voter
34. Qualitative Analysis	*Mr.* Voter
35. Seminar in Industrial Chemistry	*Mr.* Voter
36. Elementary Physics	*Mr.* Stetson
37. Physical Measurements	*Mr.* Stetson
38. History of Physics	*Mr.* Stetson
39. Descriptive Astronomy	*Mr.* Stetson
40. Laboratory Astronomy	*Mr.* Stetson
41. College Algebra	*Assistant Professor* Paine
42. Solid Geometry	*Assistant Professor* Paine
43. Food Study	*Miss* Wells
44. Advanced Food Study	*Miss* Wells
45. Metal Craft	*Miss* Pierce
46. Laboratory Metal Craft	*Miss* Pierce
47. History of Modern Art	*Associate Professor* Leonard
48. Advanced Drawing	*Associate Professor* Leonard
49. Vocal Music	*Miss* Hayden

SUMMER SESSION OF 1914.

The next session will open on Tuesday, June 30, 1914, with registration and preliminary conferences on Monday and Tuesday. Class-room exercises begin on Wednesday morning.

The classes will meet five times a week for six weeks, unless otherwise stated. The college laboratories, libraries, halls of residence, and dining hall will be open, with increased facilities. The February number of the Middlebury College Bulletin will be a prospectus of the Summer Session of 1914. Send applications for this number to The Director, Summer Session, Middlebury, Vt.

GENERAL INFORMATION

HISTORY OF THE COLLEGE

MIDDLEBURY College was chartered in 1800, and its first class was graduated in 1802, at which time the first academic degrees conferred in Vermont were bestowed. Even before the granting of a charter, collegiate work had been prosecuted in Middlebury, under the leadership of Rev. Jeremiah Atwater, Yale, 1793, the Principal of the Addison County Grammar School, who became the President of the College, having been recommended for the position by Doctor Dwight, then President of Yale College. A library of 494 volumes had already been carefully selected and presented to the College. For ten years all the work of the institution was conducted in a large frame building which it shared with the Addison County Grammar School, but in 1810 Colonel Seth Storrs of Middlebury gave to the Corporation thirty acres of land, "beautifully situated in an elevated part of the village," which now forms part of the College Campus. On this site the first building of the College was erected in 1814. It was called at first "West College," but in 1846 was named Painter Hall, in honor of Hon. Gamaliel Painter, one of the most generous patrons of the College and most useful citizens of the town, who had bequeathed all his property to the institution. It has been in continuous use since its erection, and is the oldest college building in Vermont. The commodious and beautiful Chapel was erected in 1836, and is still the most commanding object on the Campus and in the landscape of the village, and a useful and convenient

administration and recitation building. Starr Hall, a large dormitory, was erected by the beneficence of Charles and Egbert Starr in 1861, and rebuilt in 1865, after a disastrous fire, by the same donors. These three graceful stone buildings, forming a college row typical of New England, give dignity and quiet beauty to one of the most beautiful college parks to be found in America.

The builders of Middlebury were men of deep religious faith and earnest moral purpose, and clergymen from the surrounding towns long exercised controlling influence in the Corporation. The College has had a long and heroic struggle with poverty, but her doors have never been closed, and she has furnished uninterruptedly to the youth of northern New England opportunities for thorough literary education and a vantage point of outlook upon the larger life of the world.

MIDDLEBURY'S RECORD

During her first century Middlebury sent out 1,686 graduates; 543 of these were clergymen, including 71 missionaries. An exceptionally large proportion became teachers, of whom 106 were professors in colleges or theological seminaries; 32 college presidents were sent forth by Middlebury from 1800 to 1900. She graduated in that time 400 lawyers, including over 50 judges of courts. Fifteen of her alumni have been members of Congress, and nine, governors of States or Territories. It is Middlebury's boast that, in proportion to her size and the means at her command, no American college has made a nobler record.

A residential town of 2,000 people, on the Rutland Railroad, New York Central Lines, with through

trains between New York and Boston and Montreal, Middlebury is an ideal location for a rural New England college. The foot-hills of the Green Mountains are a few miles distant. From the heights of the College Campus one sees many of the grander peaks of the Adirondacks. The Otter River flows through the town, and in its valley are many of the best farms of Vermont. Elms and maples line the village streets, and the houses betoken modest thrift and quiet taste. Water of unexcelled purity and quantity is brought from mountain springs, eight miles distant. Intoxicating liquors are not sold, and there are no trolley lines to neighboring cities. The College is the pride of the village, and many of the homes of the people are open to the students.

THE VILLAGE OF MIDDLEBURY

The specialty of Middlebury is not a department of study, but a type of student. The location of the College in a frugal agricultural region favors economy. For over a century she has sought out particularly the youth from the quiet homes of northern New England and surrounded them with encouragement to modest living while engaged in the pursuit of knowledge. By resolute endeavor college expenses have been kept low. Students who have to work their own way are especially encouraged, in the belief that such students furnish the most healthful tone to an institution of learning. Those who can afford more than Middlebury exacts are invited to consider the advantages to character which come from such an atmosphere in the formative period of life.

MIDDLEBURY'S SPECIALTY

The Middlebury idea is that, since no two men are alike, each student needs the particular care and oversight of his instructors during his entire college course. With a small student body and an ample number of professors such oversight is possible, and the unusual success of Middlebury's graduates is believed to be due to its maintenance.

INDIVIDUAL TRAINING

GRADUATE WORK.

THE degrees of Master of Arts and of Master of Science may be attained by graduate work completed during the regular college year, or at summer sessions, in accordance with the following regulations:

1. The candidate must have a baccalaureate degree from this College, or from one having an equivalent curriculum.

2. Candidates should register during the first week of either semester, or during the first week of the summer session. A renewal of all existing registrations must be made at the beginning of each college year.

3. To obtain the degree of Master of Arts or of Master of Science one year of resident work (September to June), or at least four summer sessions, is necessary.

4. Candidates for either degree, after conference with the instructor or instructors interested, shall outline the work intended and the studies desired, and present such outline to the Committee on Graduate Instruction for its approval.

5. The major work of the candidate must be undertaken in some department in which there have been completed undergraduate courses of study of such advanced grade as to satisfy the department of his fitness to enter upon graduate work.

6. One half of the work (fifteen semester hours) must consist of specially assigned graduate studies and investigation prescribed by the department in which the major work is undertaken; the remaining half may be pursued in undergraduate courses of C grade recommended by the department in which the major work is taken, and approved by the Committee on Graduate Work. A minimum grade of 80 per cent shall be maintained in all of the courses counting toward the degree.

7. Graduates of Middlebury College who have to their credit work done in undergraduate years, and not counted toward a baccalaureate degree, may count fifteen such credits toward an advanced degree, subject, however, to the provision made for undergraduate courses in Section 6.

8. No credits counted in conferring a first degree at Middlebury College, or elsewhere, shall be accepted for a second degree.

9. The work must be completed within five years after the first registration unless this period is extended by vote of the Faculty.

10. Besides the regular examinations, the candidate must be examined in the subject chosen for the major study, and at the discretion of the instructor under whose direction this work is done may be required to present a thesis.

11. The degree shall not be given in absentia, nor shall it be bestowed before the Commencement following graduation.

12. The regular tuition fees for undergraduate work are charged. An additional fee of $15 is required for the final examination and diploma.

EXAMINATIONS

THE semester grade in any study is obtained by combining the recitation mark with the examination mark in the ratio of three to one.

A student whose term mark in any course falls below 50 per cent will be excluded from the examination and must repeat the course with the following class, except that, if the course be an elective one, he may substitute another elective.

A student will be conditioned whose combined recitation and examination mark at the close of a semester or of a study is below 60 per cent, unless the examination mark be as high as 70 per cent; but no student will be allowed to pass whose examination mark is below 50 per cent.

In order that a condition may be removed, either the average of the term mark and the new examination mark combined as above stated must reach 60 per cent, or the new examination mark must be as high as 70 per cent.

A student who fails to attain a passing grade in three or more courses in any semester will be summoned before the Administration Committee to show cause why he should not be dropped from College.

A student who fails to pass an examination at the close of the first semester, and is thereby conditioned, will be given an opportunity to take another examination either on the first day after the Easter recess, or on such one of the first three days of the college year as shall be determined by the Registrar. A student who is conditioned at the close of the second semester may take an examination on such one of the first three days of the college year as shall be determined by the Registrar, or on the first day after the

Christmas recess. No other opportunities for the removal of conditions will be given, except that a Senior may take examinations for deficiencies or conditions on the Saturday preceding Commencement and students attending Summer Sessions at the close of the sessions.

Any student failing to make up any condition as provided for above will be required to repeat the subject with the following class, even though, from conflict of hours, or any other cause, it necessitates for him the temporary omission of some of the regular work of his class.

Any student who is obliged by the operation of the foregoing rule to repeat with the following class subjects amounting to one-half, or more, of the regular hours of the term will be ranked as a member of that class.

A student conditioned in a required subject, or allowed to postpone a required subject, must obtain credit in it at the earliest opportunity presented, even though the subject should in the meantime have become an elective.

A conditioned student who, because of the omission of the subject from the curriculum for the year, is prevented from repeating a study in which he is due shall, at the beginning of the second semester after his failure, elect another study in its place.

A student who is absent from any examination at the close of a semester will be required to pass that examination on or before the beginning of the corresponding semester of the following year. If the student fails to meet this requirement, he must repeat the course with the following class.

No student will be given Sophomore rank who has not made up his entrance conditions; and no student

will be given Junior rank until the work of the Freshman year is completed.

Students obliged to absent themselves from College for a determined period of time may obtain from the Dean the privilege of appearing for examination in subjects previously specified. The length and character of such examinations are determined by the instructor, and a grade of 75 per cent is required. Resident students will not be given credit for work done outside of class.

No student who is conditioned in more than one study will be excused from college exercises for the purpose of playing on an athletic team.

RECORD OF SCHOLARSHIP

At the close of a study, any student who desires it may receive from the Registrar a general statement of his rank in that study, based upon his term work and examination. If he has attained 90 per cent or above, his rank is reported as A, or excellent; if between 80 and 90 per cent, as B, or good; if between 70 and 80 per cent, as C, or fair; if between 60 and 70 per cent, as D; if below 60 per cent, the student is conditioned in that study. These reports are also given to parents by the Registrar upon request.

HONORARY APPOINTMENTS

The Faculty, under the direction of the Corporation, give to the first third of each department of each class, on the basis of scholarship, honorary appointments for Commencement. The valedictory and salutatory appointments are of equal rank, the former being given to the leader among the men and the latter to the leader among the women.

PHI BETA KAPPA

THE Middlebury Chapter of the Phi Beta Kappa Society is the Beta of Vermont. By a recent vote of the chapter those of the first one-fifth of each graduating class who have attained an average rank, for the entire course, of 87½ per cent will be eligible for election to membership.

SPECIAL HONORS

As an incentive to best work by students of superior ability, who have strength to do more than should be required of the majority, and to promote and encourage special investigation in the various departments of the curriculum, the Faculty have established a system of honors. These are divided into two classes, Honors and Highest Honors, and are subject to the following regulations:

1. The candidate must have completed major work in the department in which Honors are sought.

2. Enough more than fifteen hours a week must have been carried in the undergraduate courses to insure to the candidate at graduation a surplus of at least six credits above the one hundred and twenty credits required for the Bachelor's degree.

3. The requirement of the six extra credits may be met by the fulfilment of work in research or special investigation assigned by the department in which Honors are sought; or by the completion of two C courses in that department, provided that they are of that grade which would be counted for the Master's degree.

4. The attainment of 80 per cent for Honors, or 90 per cent for Highest Honors, is requisite as an average rank in the courses which have been taken in completing the major work of the department, and also in the special work performed in the attainment of the six extra credits.

5. On the completion of the six extra credits, whether attained in independent investigation or in class-room work, an examination shall be given covering as much of the work of the department which the candidate has taken as shall be deemed necessary, and, at the discretion of the instructor, a thesis may be assigned.

6. If the additional six credits for an Honor be pursued in class-room courses, these courses must be taken in accordance with the rules regarding extra hours.

7. Credits for Honors may be counted later toward the Master's degree.

These honors will be printed on the Commencement programme and in the next annual Catalogue, and will be certified to, when requested, by a written certificate from the President and the professor of the department, stating the nature and quality of the extra work done.

The degrees of A.B. and B.S. are conferred *cum laude* upon those who have attained an average rank, for the entire course, of 85 to 90 per cent; *magna cum laude* if that rank is 90 to 95 per cent; *summa cum laude* if it is 95 per cent or above.

PRIZES

THE PARKER PRIZES. Established by gift of Daniel Parker, Esq., in 1807, and Professor Frederick Hall in 1820. Two prizes of $20 and $10 to two of the competitors in the Freshman class who are adjudged the best speakers at a contest on Monday evening of Commencement Week.

THE MERRILL PRIZES. Established in 1882 by bequest of Rev. Thomas Abbot Merrill, D.D., Trustee 1806-1855. Four awards, $25, $20, $15,

and $10, to the four men of the Sophomore class adjudged the best speakers at the same contest.

THE DEACON BOARDMAN PEACE PRIZE. Established in memory of Samuel Ward Boardman, 1789-1870. An annual prize of $30 to the member of the Junior class submitting the best essay in favor of peace, and in opposition to war as a method for settling international differences. The essay must be creditable as a literary composition and consist of at least 2,000 words. The first award of this prize was in 1912, the recipient being Dale Simpson Atwood, of the Class of 1913.

THE PEDAGOGY PRIZES. Two prizes of $40 and $20 for the students of the Department of Pedagogy submitting the best essays on educational topics.

In the Latin Department, recognition is made of excellence in the work of the second semester of the Sophomore year, including the preparation of a notebook exhibiting the debt of English poetry to Horace, by the presentation to the two successful competitors of reproductions of works of classic art, selected by the head of the department.

For the year 1913-14, two prizes, $15 and $10, are offered to men for excellence in debate. Similar prizes are offered to women for excellence in reading.

THE EGBERT STARR LIBRARY

THE Library of Middlebury College is older than the institution itself. Before the granting of the charter the benevolent and progressive citizens of the town had collected some 500 well-chosen vol-

umes for the use of students. Volumes bearing the autographs of some of the founders are still on the library shelves. In the early history of the College two flourishing student organizations, the Philomathesian and Philadelphian Societies, founded libraries which were unusually extensive and valuable for the time, and many of their volumes are still among the treasures of the College. Great improvement in the Library was made during the administration of President Cyrus Hamlin (1880-85), who removed the books from the Chapel to the north division of Painter Hall, and opened all the shelves to the students.

The beautiful and convenient marble Library now occupied was erected with funds bequeathed by Mr. Egbert Starr, and dedicated during the centennial exercises of the College in July, 1900. The cost of the building was $50,000, to which was added $5,000 for its decoration and $5,000 for the purchase of books by the son of the donor, Dr. M. Allen Starr. The front of the building is entirely devoted to a large and convenient reference library, and the capacity of the stacks is 90,000 volumes. The entire Library now contains about 45,000 volumes, and is a depository of government publications. The number of volumes added the past year was 1,130, exclusive of government documents. Students are granted free access to all the shelves. The building is open continuously through the working hours of the day. The reference rooms contain a large number of reviews and magazines, and reading rooms with daily and weekly papers are maintained in Painter and Pearsons Halls. A reference library on education is provided in the rooms of the Department of Pedagogy.

The Library staff has recently been increased. The appropriation for Library purposes is now $3,500 a year, and several gifts of money for additions to the Library have been received, as well as a number of volumes by donation. A few students from the upper classes are given employment in the Library in part payment of their tuition.

The College is desirous of possessing as complete a collection as possible of the publications of Middlebury graduates, and alumni who are authors of either books or pamphlets are requested to coöperate in bringing this about by presenting the Library with copies of their works.

THE WARNER SCIENCE HALL

THE studies in the Departments of Physics, Biology, Geology, and Home Economics are pursued in the large and convenient Warner Science Hall, erected in 1901 through benefactions of the late Ezra J. Warner, of the Class of 1861. The building is a memorial of his father, Hon. Joseph Warner, formerly a resident of Middlebury, and a trustee of the College from 1850 to 1865. By the will of Mr. Warner the College has received a bequest of $25,000 for the care and maintenance of the Hall, and for the purchase of supplies for the departments which it accommodates.

The Department of Physics is located on the first floor, and comprises a main laboratory for student use with sufficient apparatus for two full years of study and investigation in Physical Science, a private laboratory for the instructor, and a physical lecture room.

In the summer of 1913 the Department of Chemistry was moved to a new building, and the second and third floors of Warner Hall were divided among the Departments of Biology and Geology.

A pleasant and convenient laboratory of Home Economics has been fitted up and equipped.

Advanced study and independent research are encouraged in each of the natural and physical sciences, and in the modern and well-furnished laboratories of this building abundant opportunities are afforded to the student.

THE HALL OF CHEMISTRY

In September, 1913, the Department of Chemistry was established in the new laboratory building erected with a portion of the General Education Board fund of $200,000.

This building is 44 by 100 feet, three stories, and the basement is lighted with full-sized windows, so that for all practical purposes it constitutes another story. The material is Vermont marble, laid in random ashlar, with rubbed white marble trimmings.

In the basement are the combustion and assay rooms, the organic laboratory, the laboratory for water and milk analysis, the fan room for the extensive flue and ventilation system, a balance room, two dark rooms for photography, and four store rooms.

The first floor is used at present for the Departments of French and Mathematics, and for a portion of the work in English.

The second floor provides two large laboratories for qualitative and quantitative work, a private laboratory for research work, a large library and conference room, a hydro-sulphide room connecting

with the qualitative laboratory, two balance rooms, and a store room.

On the upper floor are the general chemical laboratory, which is fitted with fifty-six desks and ample hood room, a large lecture room with raised seats and a lecture table with hoods, a store room, a balance room, and the private laboratory and office of the head of the department.

The building is completely equipped with water, air, and gas pipes, and with electricity for light and power. The interior finish is white unglazed brick. The building is perfectly lighted by a hundred spacious windows, and is attractively located on the college quadrangle, facing the McCullough Gymnasium.

THE MUSEUM OF NATURAL HISTORY

Among the professors of the College for many years have been men of marked ability in natural science, who have shared with the institution the fruits of their researches. One of the earliest geological surveys of Vermont was conducted by Professor Charles B. Adams, who then occupied the chair of Natural History. He laid the foundation for the large collection of fossils representing the different geological formations. The work of Professor Henry M. Seely, long connected with the College, is in evidence in the large collection of fossils of the Champlain Valley.

In Botany, the complete series of the flowering plants and ferns of the Champlain region, which was collected by President Brainerd, is especially notable. This herbarium is constantly increasing, and valuable

additions have been made in recent years in the higher fungi and other cryptogamous plants gathered by Dr. Edward A. Burt.

The Zoölogical Museum has recently received accessions from the Smithsonian Institution and from Mr. Silas H. Paine, of Silver Bay, N. Y.

THE McCULLOUGH GYMNASIUM

In 1910 Hon. John G. McCullough of Bennington offered to give $25,000 towards the erection of a gymnasium, and the alumni of the College completed a gymnasium fund of $50,000 at Commencement of that year. The building was dedicated at the Commencement of 1912. The material is light marble, and the style colonial, like the other buildings of the College. The dimensions are 110 by 57 feet. The main floor contains a large exercising room and basket-ball court, with a room for smaller gymnastic classes, which also serves as a stage for dramatic representation. The first floor contains a locker room, with space for 375 lockers, abundant shower baths, director's office and examination room, faculty locker room, two handball courts, boxing and fencing room, and quarters for visiting athletic teams. A convenient serving room renders the building available for college banquets.

Courses in physical education are offered to all students and are required of Freshmen and Sophomores. This work is under the direction of Mr. Ray L. Fisher, who is also in charge of all college athletics.

THE PORTER ATHLETIC FIELD

THE College has recently acquired a new athletic field, purchased and equipped at a cost of $10,000, the gift of a friend. The field is east and south of the Library, lands extending from the Cornwall road to South Street, owned recently by Professor Howard, the Linsley estate, and Mr. J. Edwy Buttolph, but known to older graduates as part of the Porter farm. It is about eighty acres in extent, beautifully situated, rolling meadow and pasture, with never-failing springs and a grove of large pines, and commands an extensive view of the Green Mountains. A quarter-mile cinder track has been built, and also a field for baseball and football. A residence street, extending from Main Street to South Street, will be constructed in the summer of 1914. The athletic field will be known as Porter Field.

COLLEGE OFFICES

THE office of the President is located on the third floor of the Chapel. The President may be seen from 11 to 12 A.M. every day except Sunday, and consultation by students on any subject of importance to them is cordially invited. When the President is out of town the Dean is in charge of the College. A catalogue of all graduates, former students, and friends of the College is kept in the office, and prompt notification of change of address is requested. The President's home is the large dwelling built for the purpose by President Kitchel and purchased for the College with funds contributed by Hon. Joseph Battell of the Class of 1823.

The Dean's office is in Painter Hall, middle division. Men desiring to be out of town while Col-

lege is in session should first secure permission there. Excuses for absence are also presented at that office.

The Dean of Women has her office on the fourth floor of the Chapel, where women may offer reasons for absence.

The office of the Registrar is in Painter Hall, middle division. All students are expected to register at the beginning of each semester. The Registrar's office will be open for this purpose on and after the Monday before the beginning of the college year.

The Treasurer of the College has his office in the National Bank of Middlebury, and may be seen during banking hours. At the opening of the college year, and again at the beginning of the second semester, the Treasurer will establish a temporary office in one of the College buildings, for the convenience of students in the payment of bills.

RELIGIOUS SERVICES

THE exercises of each day, except Sunday, begin with religious services, which all students must attend. They are also required to attend public worship on Sunday morning, at such churches as are decided upon by the students or their parents.

In the Hemicycle of Warner Science Hall, the Young Men's Christian Association holds meetings on Tuesday evenings, and the Young Women's Christian Association on Thursday afternoons, to which the students are welcome.

The College is non-sectarian, but seeks to promote a healthful religious influence.

HALLS OF RESIDENCE FOR MEN

PAINTER HALL was erected in 1814, and is one of the best examples of colonial architecture in New England. It was first known as West College, but since 1846 has borne the name of Gamaliel Painter, one of the founders of the College, whose generosity provided the funds for the building.

Starr Hall was built in 1861, and was rebuilt, after a disastrous fire, in 1865. The funds for its erection were contributed by Charles and Egbert Starr. It has thirty-two suites, designed for two students each, consisting of study, bedroom large enough for two single beds, and closets.

Both halls are of gray limestone, and are substantial and comfortable buildings. A few years ago they were remodeled and furnished with bathrooms, water-closets, steam heat, and electric light. The charges for rooms in both dormitories are the same, and are exceedingly moderate: $40 a year per student when two occupy a room, and $80 when a room is occupied singly, including light and heat in each case. The rooms in both halls are furnished with single iron beds; other furniture must be provided by the student, and may be purchased in Middlebury. Students should bring bedding.

In assigning rooms, preference is given to students in College in order of classes. A drawing for rooms for 1914-1915 will be held June 6, 1914. Students now occupying rooms, and desiring to retain the same, may do so by depositing $5 advance payment on room-rent with the Treasurer before June 6. Others desiring rooms for next year, including incoming students, may secure reservations by making the $5 advance deposit. Rooms not taken June 6

will be assigned to students applying later in order of application, irrespective of classes.

The halls will be ready for occupation by the students on the noon of the Monday that precedes the opening of College after any vacation period; they will be closed for all vacation periods on the noon of the first Saturday after the period begins.

HALLS OF RESIDENCE FOR WOMEN

PEARSONS HALL, a new building for women, was opened at the beginning of the college year in 1911. It is located on a commanding height overlooking the village, from which wide views of the Adirondacks and Green Mountains are obtained. The hall is of marble, of pleasing colonial design, and contains a large social hall, a gymnasium, and dressing and bathing rooms, besides both single and double living rooms.

Battell Cottage was enlarged in 1910, the addition furnishing the dining hall and kitchen for both the Cottage and Pearsons Hall. The two buildings together accommodate about one hundred women.

A new home for women, accommodating seventeen, was constructed in the summer of 1913. It is located on the campus of the Women's College, and is known as Hillside Cottage.

The price of board and room in each building is $200 a year, payable semi-annually in advance to the Treasurer of the College. Applications for rooms may be made to the Registrar, Middlebury College.

HAMLIN COMMONS

TABLE BOARD is furnished to men at Hamlin Commons. The College owns the building, which is located just outside the Campus, and gives the use of it to the students without cost. The food is plain but abundant, and the cost is $3.50 a week. Payment is required each week, strictly in advance.

EXPENSES

THE location of the College in a small village in a frugal agricultural region favors economy, and by a resolute endeavor the expenses of students have been kept extremely moderate. The charges of the College are small, and the general expenses of students should not be large. The following table indicates the principal items:

Tuition	$100.00
Room rent in Starr or Painter Hall, including heat and light	40.00
Table board for 37 weeks, at $3.50 a week	129.50
Graduation Fee (Seniors only)	11.00

By action of the Trustees the fee for incidentals ($12) charged heretofore will be abolished after the year 1913-14, and tuition beginning September, 1914, will be $100.

In most of the elective courses in Chemistry, Biology, and Physics, a laboratory fee of $5 for each semester is charged, as specified in the announcements of the several courses.

The charges for room rent, heat, and light in Starr and Painter Halls are on the supposition that two students occupy a room. When a student rooms alone, the charge for rent, including heat and light, is $80 per year.

Board and room for women in Pearsons Hall, Battell Cottage, and Hillside Cottage are $200 a year, payable semi-annually in advance.

The payment of bills is required at the opening of each semester, before the student enters upon college work. This rule includes the charge for board at the halls for women. On registration, a certificate of payment from the Treasurer's office is required.

The charge for tuition is the same for men and women. From $350 to $400 should suffice for all expenditures, and by strict economy many students maintain themselves for less. Attention is called to the sections on Self-Help and Scholarships.

SELF-HELP

For many years Middlebury has been known as a college at which exceptional opportunities are afforded to students who must depend largely upon their own resources in securing an education. The principal assistance a college can render in this respect is in keeping expenses down, especially the charges for room and board. Employment by which the student can earn a part of his expenses can usually be obtained about the College or in the village, although regular work cannot be promised before the student has arrived and his capacity and fitness are determined. Occupations in which students find employment are waiting on table, care of furnaces, farm and garden work, typewriting, tutoring, etc. The Assistant Dean conducts an employment bureau for men, and applications for work should be made to him.

SCHOLARSHIPS

THE College has a generous number of student benefits, many of them given in early years at great self-sacrifice on the part of the donors. The income of these funds is expended exclusively in payment of the tuition, in part, of needy and deserving students of good deportment and application. When the number of students was much smaller, these funds allowed a somewhat more liberal bestowment of beneficiary aid than is now possible. It is not expected that those whose circumstances admit the full payment of college bills will apply for scholarship assistance. It is earnestly desired, however, that, where need requires, those who might not otherwise be able to receive a college education will apply for aid from this source. The College has a long record of special encouragement to those who are obliged to secure an education largely through their own efforts. Correspondence concerning scholarships should be directed to the President, who will furnish blanks for application.

Any scholarship may be forfeited at any time during the course through negligence or misconduct. When a student incurs more than one condition in any semester, or when he receives a second warning because of unexcused delinquencies, the scholarship allowance for that semester is thereby forfeited.

Among the student benefits dispensed by the College are the following:

THE WALDO FUND, $10,000, established in 1864 by bequest of Mrs. Catherine E. Waldo of Boston.

THE BALDWIN FUND, $28,121, received in 1871 from the estate of John C. Baldwin, Esq., of Orange, N. J.

THE WARREN FUND, $3,000, given in 1835 by bequest of Deacon Isaac Warren of Charlestown, Mass., and its income applied in payment of college bills of those who are preparing for the Gospel Ministry.

THE FAIRBANKS SCHOLARSHIPS, $2,000, established by Thaddeus Fairbanks, Esq., of St. Johnsbury.

THE LEVI PARSONS SCHOLARSHIPS, established by Hon. Levi Parsons Morton of New York City.

THE DANIEL O. MORTON SCHOLARSHIP, established by Hon. Levi Parsons Morton of New York City.

THE PENFIELD SCHOLARSHIP, $1,000, established by Allen Penfield, Esq., of Burlington.

THE EMMA WILLARD SCHOLARSHIP, $2,000, established in 1895 by the Emma Willard Association, for the benefit of deserving young women.

THE CHARLES A. FIELD SCHOLARSHIP, $300, given to the village of Proctor, Vermont, "as a memorial of regard for Fletcher Dutton Proctor and of gratitude to him, and for courtesies received at the hands of other residents of said village."

THE A. P. STAFFORD FUND, $1,000, established "to assist needy students from Wallingford to an education."

THE WINDHAM COUNTY CONGREGATIONAL CONFERENCE SCHOLARSHIP, $600.

STATE SCHOLARSHIPS

AN annual appropriation from the State of Vermont pays to the amount of $80 annually "the tuition and incidental college charges of thirty students, one of whom shall be designated and appointed by each Senator in the General Assembly, such appointment to be made by such Senator from his respective county, provided any suitable candidate shall apply therefor, otherwise from any county in the State."

By act of the Legislature of 1912, thirty additional State scholarships of the value of $80 each were granted for the years 1912-14. These scholarships are likewise in control of the State Senators.

Any person prepared to enter College, desiring to take advantage of a State scholarship, should apply to one of the Senators of the county in which he resides, and the Senator may thereupon give him a certificate of appointment for a period of two years. Should the Senators in the applicant's county already have made appointments, the student should immediately apply to the President of the College, as there may be a vacancy from some other county of which the applicant may avail himself.

Under this act, students of both sexes are eligible for appointment to a State scholarship. The same regulations as to forfeiture through misconduct and incurring conditions apply to State scholarships as to student benefits owned by the College.

ASSOCIATED ALUMNI

THE officers and committees of the Associated Alumni of the College for the year 1913-14 are: *President,* John A. Mead, '64; *Vice-Presidents,*

Harry F. Lake, '99, Louis W. Austin, '89, Eugene C. Bingham, '99; *Secretary and Treasurer,* Prof. Frank W. Cady, '99; *Central Committee,* Prof. Charles B. Wright, Prof. Duane L. Robinson, '03, Prof. Archibald D. Wetherell, '05; *Necrological Committee,* Thomas E. Boyce, '76, Stanton S. Eddy, '94, Harry L. Cushman, '07.

ALUMNI ASSOCIATIONS

ALUMNI Associations in New York and Boston, and an Alumnae Association, hold annual meetings. The officers of the New York Association for the year 1913-14 are: *President,* Judge Richard H. Smith, '78; *Secretary and Treasurer,* Harold D. Leach, '10; *Executive Committee,* Sanford H. Lane, '05, Percy L. Roberts, '05, A. C. Pilger, '05.

The officers of the Boston Association for the year 1913-14 are: *President,* Dr. Burt M. Bristol, ex-'98; *Secretary,* Miss Harriette E. Bolton, '90; *Treasurer,* Carl A. Perkins, '07.

The Executive Board of the Alumnae Association for the year 1913-14 are: *President,* Mrs. Annie Ritchie Megathlin, '94; *Vice-President,* Mrs. Florence Giddings Gates, '05; *Secretary and Treasurer,* Miss Carmen R. Walker, '11; Miss Florence C. Allen, '98; Miss Pauline A. Smith, '06.

DEGREES CONFERRED IN 1913

HONORARY DEGREES.

Doctor of Divinity

Arthur Ernest Harriman — Silas Evans
Julius Walter Atwood, '78

Doctor of Letters

Julian Willis Abernethy, '76

Doctor of Laws

James Levi Barton, '81 — John W. Rowell
Allen Miller Fletcher

DEGREES IN COURSE

WITH COMMENCEMENT APPOINTMENTS

Master of Arts

David Hudson Corkran, Univ. of Chatt., '92
Marcus Franklin Gorham, '12
John William McCormack, '09
Charlotte May Johnson, '01

Bachelor of Arts

(as of the Class of 1910)

Erwin Bruce Hallett

Bachelor of Arts

Edwin Lawrence Bigelow[6, 8]
Millard Fillmore Blanchard
Edgar Alonzo Carrier, Jr.* † ¶
Wilfred Edward Davison*‡ ¶
William Eben Greenleaf* † ¶ [9]
Moses Gilbert Hubbard, Jr.* † ¶ [5]
Shintaro Iwasaki
William Francis Pollard, Jr.* † ¶
Roy Harold Walch* [3, 6]
Franklin Grandey Williams
Harry Oliver Williams

* Commencement Honors.
† Degree conferred *cum laude*.
‡ Degree conferred *magna cum laude*.
3. Highest Honors in German.
5. Highest Honors in History.
6. Honors in History.
8. Highest Honors in Pedagogy.
9. Honors in Pedagogy.
¶ Phi Beta Kappa.

Fannie Gertrude Alden
Mary Townsend Archibald
Laurie Romola Besiegel[2]
Esther Alice Boyce
Ruth Mary Brookins
Sarah Davis Brown
Faye Belle Butterfield* † ¶
Caroline Elizabeth Buttolph
Julia Clifford Carter* † ¶
Wilma Caroline Cory
Bessie Mildred Cudworth* † ¶
Edith Mary Darrow
Helen Louise Foss* † ¶
Irene Augusta Graves* ‡ ¶
Helen Atarah Harriman
Jessie Lucinda Haskins
Eleanor Whitney Hatch
Bertha Annette Holden
Alice Adella Holmes* ‡ ¶ [3]
Eva Adelia Holt* † ¶ [7]
Phyllis Edwards Hopkins*†¶
Kathleen Amelia Hunt[7]
Mary Ida Johnson
Emma Elizabeth Kingsley[4]
Faith Blackmer Linsley*‡¶[1]
Alice Rachel Peaslee
Mary Colton Reynolds
Margaret Sharpe* † ¶
Annah Belle Sheldon
Charlotte Leavitt Slocum
Barbara Harriet Smith*†¶[1,3]
Mildred Adeline Snow*‡¶ [3]
Anna May Sterling
Ruby May Vosburg
Stella Alice Wooster

Bachelor of Science

John Comstock Agnew
Dale Simpson Atwood* † ¶
Lacy Wheaton Bump
William Wallace Chalmers
Theron Lee Culver
Marvin James Dodd
Howard Clinton Farwell
Hammond Ladd
Bernard Arthur Leonard
Walter Bernard McGuirk
Marshall Jewell Root* † ¶
Charles Leo Smiddy
Hendrick Woodruff Van Ness
Edgar Jolls Wiley

* Commencement Honors.
† Degree conferred *cum laude*.
‡ Degree conferred *magna cum laude*.
1. Highest Honors in English.
2. Honors in French.
3. Highest Honors in German.
4. Honors in German.
5. Highest Honors in History.
6. Honors in History.
7. Honors in Mathematics.
8. Highest Honors in Pedagogy
9. Honors in Pedagogy.

¶ Phi Beta Kappa.

PRIZE SPEAKING AWARDS

MERRILL PRIZES

Class of 1915

First Prize. George Clyfton Dade
Second Prize. Michael Francis Shea
Third Prize. John Mott Hoyt
Fourth Prize. Guy Clinton Hendry

PARKER PRIZES

Class of 1916

First Prize. Bryson deHaas McCloskey
Second Prize. Ernest Elisha Grant

PRIZES IN PEDAGOGY

First Prize. William Eben Greenleaf

PRIZES IN HORACE

First Prize. Mary Hayward Buck
Second Prize. Thomas Kenneth Penniman
Third Prize. Grace Elizabeth Peaslee

DEACON BOARDMAN PEACE PRIZE

Robert Edgar Bundy

STUDENTS

[The letter *a* after the name of a student indicates that he is a candidate for the degree of Bachelor of Arts; the letter *s*, that he is a candidate for the degree of Bachelor of Science.]

GRADUATE STUDENTS

Stephen S. Cushing, Dart.	*St. Albans*
Harry A. Farrar, '10	*Castleton*
Gordon Peach, '11	*Syracuse, N. Y.*
John A. Viele, '09	*Springfield, Mass.*

SENIORS: CLASS OF 1914

Harald Wallace Abbott	*s*	*Derry, N.H.*	25 College St.
Robert Edgar Bundy	*a*	*Bethel*	D. K. E. House
Willard Duncan Carpenter*	*s*	*Vergennes*	7 South St.
Howe Kendrick Cassavant	*a*	*Albany, N.Y.*	Chi Psi Lodge
Laurance Webster Cluff	*a*	*Hyde Park, Mass.*	23 Starr Hall
Elton Frick Cronk	*s*	*Greenwich, Conn.*	D. U. House
Richard Stewart Esten	*a*	*Middlebury*	55 Seminary St.
Benjamin Warner Fisher	*s*	*Vergennes*	D. U. House
Harvey Edward Goodell	*s*	*Readsboro*	D. U. House
Robert Henry Hill	*a*	*Brooklyn, N.Y.*	8 Starr Hall
Ralph Mayo Hutchins	*s*	*No. Stratford, N.H.*	23 Starr Hall
William Gleason Macfarlane	*a*	*Cowansville, Que.*	13 Weybridge St.
Walter Irving Metcalf	*a*	*Hydeville*	D. S. Lodge
Max Duffield Miles	*s*	*Chicopee Falls, Mass.*	8 Weybridge St.
Augustus Wilfred Frost Newman	*s*	*Hoosac Tun., Mass.*	27 Starr Hall
George Herbert Seavey	*a*	*Hudson, N.H.*	D. S. Lodge
Karl Isaac Solomon Sterns	*s*	*Middlebury*	Chi Psi Lodge
Nobuzo Suyemitsu	*s*	*Uwamachi, Japan*	15 College St.
Linwood Taft	*a*	*Woodstock*	34 Weybridge St.
Edward Robert Triggs	*s*	*E.Pt.Chester, Ct.*	10 Painter Hall
Homer Jackson Vail	*s*	*Randolph*	20 Weybridge St.
John Charles Eliot Voss	*a*	*Shoreham*	D. S. Lodge
Elmer Reed West	*a*	*Ticonderoga, N.Y.*	D. S. Lodge
Raymond Cyrus Whitney	*s*	*Millbury, Mass.*	4 Weybridge St.
Charles Cushman Wilcox	*s*	*Greenfield, Mass.*	18 Painter Hall
William Francis Youngs	*s*	*New York, N.Y.*	D. K. E. House

* Not of full Senior rank.

JUNIORS: CLASS OF 1915

David Holbrook Brown	*a*	*Collinsville, Ct.*	12 Starr Hall
Irving Lyman Cabot	*a*	*Windsor*	7 Starr Hall
George Hamilton Chapman	*a*	*Worcester, Mass.*	Chi Psi Lodge
Elbert Charles Cole	*a*	*Orleans*	13 Starr Hall
George Clyfton Dade	*a*	*Amesbury, Mass.*	27 Starr Hall
Clifford Theron Day	*s*	*Morrisonville, N.Y.*	6 Starr Hall
George Henry Gardner	*s*	*N.Marshfield,Mass.*	12 Painter Hall
Wayne Martin Haller	*a*	*ShelburneFalls, Mass.*	119 Main St.
Harold Webb Haskins	*a*	*Bradford*	D. S. Lodge
Perry Hayes	*a*	*S. Manchester, Ct.*	4 Weybridge St.
Guy Clinton Hendry	*a*	*N. Hampton, N.H.*	14 Painter Hall
John Mott Hoyt	*a*	*Cornwall*	MiddleburyR.D.2
Frank Silver King Hunt	*a*	*W. Lebanon, N.H.*	10 College St.
Merrill Lee Jenkins	*a*	*North Troy*	Dr. E. D. Collins's
Charles Sherman Jones	*a*	*Castleton*	Chi Psi Lodge
Albert Laburton Kimball	*s*	*Bradford, Mass.*	D.K.E.House
Carlisle George Kron*	*s*	*Berlin. Ct.*	D.K.E.House
Robert Loder	*s*	*E. Orange, N.J.*	D. U. House
Grover Cleveland McCullough	*s*	*Chatham, N.J.*	8 Painter Hall
Clarence Wilson McIntire	*a*	*Woodsville, N.H.*	D. S. Lodge
George Wilson MacLaughlin	*s*	*Ticonderoga, N.Y.*	11 Starr Hall
Leonard Coleman Monahan*	*s*	*S.Framingham,Mass.*	10 Starr Hall
Thomas Hamilton Ormsbee	*a*	*Brooklyn, N.Y.*	27 Washington St.
Earle Leffingwell Parkinson	*s*	*Middlebury*	D. S. Lodge
Thomas Kenneth Penniman	*a*	*Meriden, N.H.*	32 Starr Hall
Frederick Reynolds Pihlman	*s*	*Chatham, N.J.*	8 Painter Hall
Charles Spurgeon Randall*	*s*	*Amesbury, Mass.*	6 Painter Hall
Aldo Alfred Ratti	*s*	*Proctor*	16 Painter Hall
Ralph Walter Ray	*a*	*Hackettstown,N.J.*	Chi Psi Lodge
Oscar Bingby Rogers	*s*	*Remsenburg, N.Y.*	D. U. House
Thomas Milne Ross	*a*	*Northfield*	13 Weybridge St.
Michael Francis Shea*	*a*	*New London, Ct.*	D. U. House
William Mollis Sistare	*s*	*Waterford, Ct.*	D. U. House
Harold Joseph Swezey	*s*	*Patchogue, N.Y.*	21 Starr Hall
Dominic Edward Weafer	*s*	*Morrisville*	D. K. E. House
Roy Thaddeus Whitney	*s*	*Shrewsbury*	13 Painter Hall

* Not of full Junior rank.

SOPHOMORES: CLASS OF 1916

James Glenn Anderson	*a*	*E. Orange, N.J.*	17 Weybridge St.
Eldon Adelbert Austin*	*a*	*Randolph Center*	18 Seymour St.
Henry Edward Aylward	*s*	*Ludlow*	3 Weybridge St.
Luke Emerson Bicknell	*a*	*Charlemont, Mass.*	7 Painter Hall
Caleb Thorndyke Brickett	*a*	*Haverhill, Mass.*	4 Weybridge St.

Robert Hart Bruce	*s*	*Milford, N.H.*	24 Starr Hall
Darrell Douglass Butterfield	*s*	*Middlebury*	30 South St.
Robert Burns Chalmers	*s*	*Fitchburg, Mass.*	D. K. E. House
Philip Harrison Condit	*s*	*E. Orange, N.J.*	D. K. E. House
Wayne Walter Constantine	*a*	*ShelburneFalls,Mass.*	17 Painter Hall
Edward Marsh Dickinson	*a*	*Lunenburg, Mass.*	28 Starr Hall
Carroll William Dodge	*a*	*Pawlet*	15 Weybridge St.
Frederick Lyon Fish	*s*	*Vergennes*	Chi Psi Lodge
John James Floyd*	*s*	*New London, Ct.*	D. U. House
Charles Atherton Fort	*s*	*Middlebury*	31 Seminary St.
Lloyd Blanchard Gale	*a*	*Batavia, N.Y.*	8 Starr Hall
Ernest Elisha Grant	*s*	*New York, N.Y.*	26 Starr Hall
Harry Ray Hall	*a*	*Hardwick*	5 Franklin St.
Russell Hemphill	*s*	*Westerly, R.I.*	D. U. House
Joseph Warren Howe	*a*	*Valatie, N.Y.*	Chi Psi Lodge
Edward Shepard Huntley	*a*	*New London,Ct.*	Chi Psi Lodge
William Russell Keefe	*s*	*Greenfield, Mass.*	D. K. E. House
Joel John Lamere	*a*	*Ludlow*	14 Starr Hall
Harold Grant Locklin	*s*	*Richford*	D. S. Lodge
Allen Prest Logan	*s*	*E. Orange, N.J.*	25 Starr Hall
Bryson de Haas McCloskey	*s*	*Oswego, N.Y.*	D. U. House
Alvin Robert Metcalfe	*s*	*Worcester, Mass.*	D. U. House
Arthur James Mott	*a*	*Bristol*	18 Painter Hall
Alban James Parker	*s*	*Morrisville*	7 Starr Hall
Carley Herbert Paulsen	*s*	*New York, N.Y.*	28 Starr Hall
Aaron Rupert Phelps	*s*	*Marshfield*	18 Seymour St.
Gerald Herbert Porter	*s*	*Wilmington*	17 Painter Hall
Gordon Moore Robinson	*s*	*New Britain, Ct.*	22 Starr Hall
Carroll Goulding Ross	*a*	*Rutland*	Chi Psi Lodge
John Edward Rourke*	*s*	*Brooklyn, N.Y.*	6 Starr Hall
Donald Worcester Salisbury	*s*	*S. Orange, N.J.*	D. K. E. House
Frank Raymond Schwarzwalder	*s*	*E. Orange, N.J.*	25 Starr Hall
Charles Floyd Seymour*	*s*	*Middlebury*	D. S. Lodge
Ralph Pendleton Shedd	*s*	*NewBraintree,Mass.*	20 Starr Hall
George Henry Snyder	*a*	*Granville, N.Y.*	31 Seminary St.
William Walter Thomas	*a*	*North Poultney*	15 Painter Hall
Paul Davis Thompson	*s*	*FitzwilliamDepot,N.H.*	14 Starr Hall
Carlton Henry Warner	*a*	*Cornwall*	Chi Psi Lodge
Lawrence Washburn Wild	*a*	*Lancaster, N.H.*	17 Weybridge St.
Joseph Alexis Wilson*	*s*	*Amesbury, Mass.*	D. S. Lodge
Lawrence Henry Woodward	*s*	*Warrensburg, N.Y.*	Chi Psi Lodge
Charles Horton Wright	*s*	*Akron, Ohio*	16 Painter Hall

* Not of full Sophomore rank.

FRESHMEN: CLASS OF 1917

Harold Eugene Adams	*s*	*Bridgeport, Ct.*	D. U. House
Augustus Palmer Benedict	*s*	*Walden, N.Y.*	5 Starr Hall

George Lester Bishop	*s*	*E. Milton, Mass.*	9 Painter Hall
Eugene Field Boyce	*s*	*Middlebury*	16 Elm St.
Thomas Francis Bresnahan	*s*	*Fitchburg, Mass.*	2 Starr Hall
Alvah Augustus Clark	*s*	*Warner, N.H.*	14 Painter Hall
Robert Frankland Coates	*s*	*Rouses Point, N.Y.*	D. U. House
Harold Lucius Cook	*s*	*Pittsfield, Mass.*	31 Starr Hall
Graydon Arthur Cowles	*s*	*New Britain, Ct.*	1 Starr Hall
Harold Allen Damon	*s*	*Nashua, N.H.*	32 Starr Hall
Charles Andrews Danolds	*s*	*Medina, N.Y.*	4 Painter Hall
Said Dartly	*s*	*Middlebury*	26 Starr Hall
Harold M. Davis	*a*	*Malone, N.Y.*	D. U. House
Karl William Davis	*s*	*Chester*	31 Starr Hall
Ernest Raymond Decker	*a*	*Westfield, Mass.*	24 Starr Hall
Theodore Henry Dewhirst	*s*	*Groveland, Mass.*	D. U. House
Randall Douglass Esten	*s*	*Middlebury*	55 Seminary St.
Ralph Abram Foote	*s*	*Cornwall*	D. K.E. House
Donald Taylor France	*s*	*NewBraintree,Mass.*	117 So. Main St.
Harold Blake Gammell	*s*	*East Barnet*	57 N. Pleasant St.
Henry Munson Garrison	*s*	*So. Orange, N.J.*	15 Starr Hall
George Wilberforce Grant	*s*	*Derry, N.H.*	13 Starr Hall
Fred Marshall Hagadorn	*a*	*Weybridge*	Middlebury, R.D. 4
Milton Lawrence Hard	*s*	*Fairlee*	11 Starr Hall
Roy Dudley Harris	*s*	*Middlebury*	Middlebury, R.D. 1
Sumner Denby Harrison	*s*	*E. Orange, N.J.*	30 Starr Hall
William Andrew Hawks	*s*	*No. Adams, Mass.*	87 Main St.
Harold E. Heath	*a*	*Ludlow*	15 Painter Hall
Harold Edmund Hollister	*a*	*Corinth, N.Y.*	5 Starr Hall
Eugene Plinius Hubbard	*s*	*New York, N.Y.*	30 Starr Hall
Walter Scott Hurst	*s*	*Slingerlands, N.Y.*	31 Seminary St.
Edwin Warren Hutchinson	*s*	*Valatie, N.Y.*	Chi Psi Lodge
Harry Walter Hyde	*a*	*Worcester, Mass.*	5 Starr Hall
Clyde Adams Jefts	*s*	*Chester Depot*	3 Weybridge St.
Paul Glen Kent	*s*	*Fitchburg, Mass.*	2 Starr Hall
Carl Smith Kuebler	*s*	*Hackensack, N.J.*	87 Main St.
Fred Paul Lang	*s*	*New Britain, Ct.*	22 Starr Hall
Charles Ridgely Lee, Jr.	*s*	*East Orange, N.J.*	3 Starr Hall
John Gardner Lewis	*s*	*Hampton, Ct.*	87 Main St.
Edward Walter Maher	*s*	*Hyannis, Mass.*	11 Painter Hall
Arthur Hazey Mecham	*s*	*Winter Hill, Mass.*	16 Starr Hall
Ralph Stanley Merriam	*s*	*Rochester*	16 Starr Hall
Webster Evans Miller	*a*	*Pittsfield, Mass.*	4 Painter Hall
Vinton Wesley Mitchell	*a*	*Watertown,Ct.*	11 Painter Hall
Charles Lynn Montgomery	*s*	*So. Shaftsbury*	1 Weybridge St.
Carl Huntress Moulton	*s*	*Jericho*	3 Painter Hall
Robert Reed Mundy	*s*	*Marshfield, Mass.*	12 Painter Hall
Arthur Maurice Ottman	*s*	*Schenectady, N.Y.*	31 Seminary St.
John Mathew Quirk	*s*	*Moriah Center, N.Y.*	3 Painter Hall
John Andrew Reynolds	*s*	*Rutland*	1 Starr Hall

Rowland Vernon Ricker	*s*	*Waterbury*	D. U. House
Frederick Adam Schilling	*s*	*Pittsfield, Mass.*	10 Painter Hall
Harold Sinclair Searle	*s*	*Worcester, Mass.*	29 Starr Hall
Roy Robert Sears	*a*	*Ludlow*	12 Starr Hall
Theodore Carl Seibert	*a*	*Newark N.J.*	9 Painter Hall
Charles Raymond Seltzer	*s*	*New Britain, Ct.*	2 Franklin St.
Arthur William Shea	*s*	*Middlebury*	11 High St.
William Slade, Jr.	*s*	*Thetford*	29 Starr Hall
Vergne Rockwood Snow	*s*	*Hardwick, Vt.*	3 Weybridge St.
Bruce Xerxes Somers	*s*	*St. Johnsbury*	Chi Psi Lodge
Harry Lysle Sylvester	*a*	*Lowell, Mass.*	9 Starr Hall
Wellsworth Coyle Phelps Thomas	*s*	*North Adams, Mass.*	16 Starr Hall
William Phillips Thorp, Jr.	*s*	*East Orange, N.J.*	89 Main St.
Emory Heath Towne	*a*	*Waterbury*	D. U. House
Arthur Thomas Vaughn	*s*	*Orange, N.J.*	3 Starr Hall
Arthur Gates Wheeler	*s*	*Stow, Mass.*	10 Starr Hall
Norton Moore Williams	*s*	*Maplewood, N.J.*	15 Starr Hall

THE WOMEN'S COLLEGE

IN CONNECTION WITH MIDDLEBURY COLLEGE

SUZANNE EVERETT THROOP, Dean

IN 1883 Middlebury College opened its doors to women, and offered to them the same courses and privileges afforded to men. In 1902 a charter was granted for an affiliated College for Women, and steps have been taken toward two coördinate institutions, one for men and one for women, as fast as resources have allowed. It is believed that both men and women are better for the distinct social life of separate colleges, but that the greater economy in administration and instruction when the education of both sexes is conducted under the same corporate management and by the same Faculty justifies affiliated institutions in the same locality.

The President and Fellows of Middlebury College exercise full supervision and control of the Women's College. They are authorized to receive gifts of money for scholarships and professorships for the benefit of women students, for buildings for women, and for the general purposes of the Women's College. Bequests, legacies, and gifts for the education of women in connection with Middlebury College, like those intended for any other department of the College, should be made payable to "The President and Fellows of Middlebury College."

Women in Middlebury are taught by the same Faculty as men, and enjoy the same privileges in the Library and Laboratories. All courses of instruc-

tion are open to them, and they have equal opportunities in every department of the college work.

The Dean seeks to be the friend and adviser of each woman in College. The social activities of the women are under her direction. In addition to the teaching of regular courses indicated in the Departments and Courses of Instruction, the Dean conducts for the women students a special course in the Reading of English Prose and Poetry, and a course in Aesthetic and Rhythmic Movement. She also takes a health record of the women and assists in directing the dramatic productions given at the College.

Pearsons Hall, completed in 1911 with a portion of the D. K. Pearsons Fund of $100,000, accommodates, with Battell and Hillside Cottages, about one hundred and twenty women. The College will provide residence for women, except where special permission is obtained to reside elsewhere.

The requirements for admission to the Women's College are the same as those for men. Women are accorded the degree of A.B. or B.S. upon graduation and may attain the degree of A.M. or M.S. Separate chapel exercises are maintained for them, and separate recitations in most of the required work of the first two years.

STUDENTS

GRADUATE STUDENTS

Edith S. Atwood, '10	*Woodstock*
Maude E. Avery, '10	*Hampton, N. J.*
M. Louise Chaffee, '09	*Jamesburg, N.J.*
Theodora W. Crane, Wells	*Middlebury*
Kathleen A. Hunt, '13	*Westport, N.Y.*
Laura L. Newell, '12	*Milford, Del.*
Barbara H. Smith, '13	*North Troy*

SENIORS: CLASS OF 1914

Florence Mary Aseltine	*a Enosburg Falls*	26 Pearsons Hall
Ellen Mary Bailey	*a Wells River*	32 Pearsons Hall
Harriet Beecher Blakeman	*a Stratford, Ct.*	30 Pearsons Hall
Helena Belle Carpenter	*a Enosburg Falls*	48 South St.
Elizabeth Chalmers	*a Fitchburg, Mass.*	25 Pearsons Hall
Sophia Noela DuBois	*a Bethel*	38 Pearsons Hall
Alice Maria Easton	*a Middlebury*	69 Pleasant St.
Amy Harriet Edmands	*a Island Pond*	41 Pearsons Hall
Isabelle Upton Esten	*a Middlebury*	55 Seminary St.
Stella Agnes Farrell	*a Middlebury*	38 College St.
Mary Madeline Geran	*a Holyoke, Mass.*	8 Pearsons Hall
Jessie Martha Graves	*a Walpole, N.H.*	33 Pearsons Hall
Helen Irene Haugh	*a Waterbury, Ct.*	22 Pearsons Hall
Charlotte Florence Jenne	*a Enosburg Falls*	26 Pearsons Hall
Gertrude Frances Kingsley	*a Middlebury*	11 Elm St.
Ethel Caroline Magoon	*a Coos, N.H.*	31 Pearsons Hall
Ruth Adelle Noyes	*a Salisbury*	10 College St.
Florine Margaret Parker	*a Essex, Ct.*	28 Pearsons Hall
Annie Estelle Perkins	*a Berwick, Me.*	25 Pearsons Hall
Mary Agnes Shea	*a Middlebury*	11 High St.
Verena Italy Suter	*a Swanton*	22 Pearsons Hall
Gladys Wilson	*a Bethel*	30 Pearsons Hall
Julia Bosworth Wood	*a West Upton, Mass.*	21 Pearsons Hall

JUNIORS: CLASS OF 1915

Marv Ruth Bartley*	*a Ashuelot, N.H.*	35 Pearsons Hall
Mary Hayward Buck	*a Waterville, Ct.*	27 Pearsons Hall
Mary Louise Ellis	*a Pittsfield*	52 Weybridge St.
Emma Louise Feeney	*a Ballston Lake, N.Y.*	31 Pearsons Hall
Isabelle Clara Field	*a Wells River*	32 Pearsons Hall
Sarah Katherine Fish	*a Vergennes*	9 Pearsons Hall
Sarah Louise Funnell	*a Huntington, N.Y.*	24 Pearsons Hall
Fannie Olive Gill	*a Springfield*	29 Pearsons Hall
Mae Eleanor Guerin	*a Worcester, Mass.*	4 Pearsons Hall
Ginevra Pollard Harlow	*a Chester*	28 Pearsons Hall
Clotilda Hayes	*a Lee, Mass.*	39 Pearsons Hall
Ruth Hilton	*a Richmond*	24 Pearsons Hall
Annie Josephine Hulihan	*a Center Rutland*	6 Pearsons Hall
Irene Idelle Ingalls	*a Windham*	37 Pearsons Hall
Ruth Kendall	*a Pittsford*	2 Pearsons Hall
Florence Kopke	*a Brooklyn, N.Y.*	19 Battell Cottage
Mildred Dickerson Lusk	*a Newark, N.J.*	13 Battell Cottage
Alice King MacGilton	*a Middlebury*	21 College St.
Irene Ethel McGregor	*a Waterbury Ct.*	38 Pearsons Hall
Laura Louise Mead	*a No. Ferrisburg*	1 Pleasant St.
Mabel Alice Miller	*a Wells River*	36 Pearsons Hall

Margaret Park Mills	*a*	*Townshend*	37 Pearsons Hall
Sophie Dunker Musgrove	*a*	*Pittsfield, Mass.*	45 Pearsons Hall
Helena Catherine Norton	*a*	*Newport*	6 South St.
Ruth Dickinson Norton	*a*	*Vergennes*	9 Pearsons Hall
Grace Elizabeth Peaslee	*a*	*Contoocook, N.H.*	35 Pearsons Hall
Elizabeth Joy Rose	*a*	*Cornwall*	34 Pearsons Hall
Adelaide Ross	*a*	*West Rutland*	4 Pearsons Hall
Harriet Emily Smith	*a*	*Addison*	27 Pearsons Hall
Britomarte Somers	*a*	*St. Johnsbury*	29 Pearsons Hall
Mary Alice Stone	*a*	*Vergennes*	20 Pearsons Hall
Marion Sarah Thomas	*a*	*Middlebury*	10 College St.
Mabel Kathryn Tooley	*a*	*Stratford, Ct.*	36 Pearsons Hall
Josephine Tracy	*a*	*Lee, Mass.*	39 Pearsons Hall
Laura Eliza Walbridge	*a*	*Brattleboro*	11 Pearsons Hall
Marjory Alexander Wright	*a*	*Middlebury*	2 Storrs Ave.

* Not of full Junior rank.

SOPHOMORES: CLASS OF 1916

Robberta Arnold	*s*	*Worcester, Mass.*	8 Battell Cottage
Vera Emma Arnold	*a*	*Quinebaug, Ct.*	21 Pearsons Hall
Ada Barnes	*a*	*Middlebury*	118 Main St.
Clara Pauline Barnum	*a*	*Jericho Center*	12 Battell Cottage
Lucia Madeline Besiegel	*a*	*Dalton, Mass.*	47 Pearsons Hall
Helen Melina Bosworth	*a*	*Scottdale, Pa.*	23 Pearsons Hall
Helen Madaline Carrigan	*a*	*Brandon*	36 Court St.
Ruth Helen Conner*	*a*	*Methuen, Mass.*	Hillside Cottage
Gladys Jane Cook	*a*	*Shoreham Center*	12 Pearsons Hall
Anna Roberts Fisher	*a*	*Vergennes*	46 Pearsons Hall
Reta Lorain Forbes	*a*	*Middlebury*	125 Main St.
Daisy Elizabeth Godfrey	*a*	*Brandon*	14 Battell Cottage
Ethel Paine Gorton	*a*	*Naugatuck, Ct.*	41 Battell Cottage
Isabel Annette Grant	*a*	*Union, N.H.*	21 Battell Cottage
Ruth Lillian Greeley	*a*	*Rochester*	47 Pearsons Hall
Isabelle Beulah Griffith	*a*	*Brandon*	2 Pearsons Hall
Frances Madeline Guerin	*a*	*Worcester, Mass.*	10 Pearsons Hall
Mary Elizabeth Halpin	*a*	*Middlebury*	36 College St.
Dorothy Harris	*a*	*Jefferson, N.Y.*	11 Battell Cottage
Hazel Louise Haseltine*	*a*	*Reed's Ferry, N.H.*	34 Pearsons Hall
Pauline Helms	*a*	*Boston, Mass.*	10 Pearsons Hall
Katherine Hobbs	*a*	*Worcester, Mass.*	48 Pearsons Hall
Mary Elbra Holmes	*s*	*Westminster Station*	4 Battell Cottage
Mertie May James	*a*	*Madison, N.J.*	4 Battell Cottage
Mildred Hathaway Jones	*a*	*Mansfield, Mass.*	8 Battell Cottage
Ruth Tyler Keet	*a*	*Bernardston, Mass.*	20 Pearsons Hall
Helen Esther Kenrick	*a*	*Walpole, N.H.*	40 Pearsons Hall
Marjorie Ruth Lee	*a*	*Vergennes*	11 Pearsons Hall
Amy Iona McNall	*a*	*Malden, Mass.*	46 Pearsons Hall

Charlotte Corbusier Marsh*	*s*	*Bridgeport, Ct.*	12 Pearsons Hall
Marjorie Martin	*a*	*Middlebury*	60 Pleasant St.
Harriet Clarissa Myers	*a*	*Westmore*	48 Pearsons Hall
Louise Delphine Nelson	*a*	*Salisbury*	Salisbury, R.D. 1
Dorothy Irene Noyes	*a*	*Salisbury*	10 College St.
Rachel Horne Pressey	*a*	*S. Groveland, Mass.*	50 Pearsons Hall
Pauline Rowland*	*a*	*Sapporo, Japan*	Hillside Cottage
Elizabeth Louise Smeallie	*s*	*Yalesville, Ct.*	44 Pearsons Hall
Cecile Maude Thomas	*a*	*Salisbury*	40 Pearsons Hall
Flora Louise Willmarth	*a*	*Vergennes*	17 High St.
Martha Elizabeth Wooding	*s*	*Yalesville, Ct.*	44 Pearsons Hall
Lois Belle Wright	*a*	*Middlebury*	112 Main St.

* Not of full Sophomore rank.

FRESHMEN: CLASS OF 1917

Katherine Ball	*a*	*Winchester, N.H.*	36 College St.
Elizabeth Mary Barrett	*a*	*Dalton, Mass.*	36 College St.
Ruth Mary Barrett	*a*	*E. Jaffrey, N.H.*	5 Battell Cottage
Lois Sirena Bodurtha	*s*	*Westfield, Mass.*	7 Battell Cottage
Mary Narcissa Bowles	*a*	*Middlebury*	20 College St.
Louesa Bullis	*s*	*Glens Falls, N.Y.*	Hillside Cottage
Florence Wood Buxton	*a*	*Jericho*	Hillside Cottage
Letitia Elizabeth Calhoun	*a*	*Middlebury*	43 South St.
Isabelle Bridget Carrigan	*a*	*Pittsford Mills*	36 Court St.
Ruth Eleanor Chapel	*a*	*North Troy*	36 College St.
Alice May Chynoweth	*a*	*St. Albans*	Hillside Cottage
Clarissa Ina Cooledge	*s*	*Peru*	3 Weybridge St.
Jennie Craigue	*a*	*Springfield*	36 College St.
Helen Beulah Cussons	*a*	*Swanton*	17 Battell Cottage
Miriam Louise Cutler	*a*	*E. Jaffrey, N.H.*	6 Battell Cottage
Gertrude Eliza Dratt	*a*	*Bridport*	6 South St.
Edith Madeline Duffield	*a*	*N.Troy, N.Y.*	Hillside Cottage
Carrie Mabelle Dunton	*a*	*Brattleboro*	8 Weybridge St.
Aileen Margaret Fleming	*s*	*Bellows Falls*	Hillside Cottage
Dorothy Fletcher	*a*	*E. Jaffrey, N.H.*	5 Battell Cottage
Madalene Katie Foster	*a*	*Walpole, N.H.*	2 Battell Cottage
Gladys Marion Frost	*a*	*Rutland*	49 Pearsons Hall
Amy Olive Hall	*a*	*Putney*	36 College St.
Ruth Fay Hall	*a*	*No. Bennington*	15 Battell Cottage
Marie Lettice Handy	*a*	*New York, N.Y.*	36 College St.
Hester Hazel Harding	*a*	*Andover, N.H.*	49 Pearsons Hall
Alice Gertrude Harriman	*a*	*Middlebury*	6 High St.
Edna Blanche Harwood	*a*	*Southbridge, Mass.*	Hillside Cottage
Marguerite Elizabeth Heaphy	*a*	*Lee, Mass.*	2 Battell Cottage
Marina Louise Holmes	*s*	*Bristol, Ct.*	Hillside Cottage
Fannie Hulett	*a*	*Starksboro*	121 Main St.
Winifred Lillie Jeffords	*a*	*Williamstown*	36 College St.

Marjorie Elizabeth Leach	*a Brattleboro*	Hillside Cottage
Eva Leland	*a Holliston, Mass.*	Hillside Cottage
Helen Elizabeth Linnell	*a Hyannisport, Mass.*	7 Battell Cottage
Helen Harriet Lyman	*s Granby, Mass.*	Middlebury, R.D. 1
Marjory Anna Mackenzie	*a Peterboro, N.H.*	16 Battell Cottage
Sarah Leah Nelson	*a Manchester Depot*	52 Weybridge St.
Marjorie Bates Phelps	*a Vergennes*	Hillside Cottage
Doris Atkinson Richards	*a Dalton, Mass.*	36 College St.
Violet Elizabeth Richardson	*a Manchester*	3 Battell Cottage
Anna Marie Rourke	*a Brooklyn, N.Y.*	Hillside Cottage
Laura May Rowe	*s Barnet*	1 Battell Cottage
Wenona Lee Shattuck	*a Weston*	36 College St.
Helen Simms	*s Gorham, Me.*	9 Battell Cottage
Sue Kathryn Smith	*a Colchester*	9 Battell Cottage
Huldah May Thomas	*a Middlebury*	10 College St.
Faith Walker	*a Barre*	10 Battell Cottage
Beulah May Wilkinson	*a Rutland*	18 Battell Cottage
Ada Melora Wood	*a Holden, Mass.*	Hillside Cottage
Evelyn Elnora Wright	*a Middlebury*	37 Pleasant St.

SUMMER SESSION STUDENTS

Mabel L. Agnew, A.B. (Middlebury), Teacher, High School, Middlebury.
Frederick A. Alden, Student (Dartmouth), Vergennes.
Frances O. Allen, Teacher, High School, Merrick, Mass.
James G. Anderson, Student, East Orange, N. J.
Mary T. Archibald, A.B. (Middlebury), Teacher, High School, Shoreham.
Viva C. Badger, A.B. (Radcliffe), Teacher, High School, Sunapee, N. H.
Ada Barnes, Student, Middlebury.
Ethel A. Belden, A.B. (Oberlin), Teacher, High School, Princeton, N. J.
Wayne C. Bosworth, A.B., A.M. (Middlebury), Rhodes Scholar, Oxford, Eng.
Ada E. Bristol, Middlebury.
Adelaide W. Brown, A.B. (Barnard), Teacher, Public School 30, Brooklyn, N. Y.
Edith H. Brown, Teacher, Brooklyn, N. Y.
Emma H. Brown, Brooklyn, N. Y.
S. Louise Burchard, A.B. (Vassar), Teacher, High School, Hamilton, N. Y.
John A. Burton, A.B. (Colby), Principal and Superintendent, Nantucket, Mass.
Faye B. Butterfield, A.B. (Middlebury), Teacher, Synodical College, Fulton, Mo.
Katharine Burrage, Middlebury.
Grace S. Buttolph, A.B. (Middlebury), Teacher, High School, Middlebury.
Marion K. Cady, Middlebury.
Mildred Cady, Middlebury.
Agnes G. Calhoun, Teacher, Middlebury.
Vernie L. Chamberlain, Teacher, Randolph.
Ruth Mary Collins, Middlebury.
S. Louisa Cook, Assistant Supervisor of Drawing, Geneva, N. Y.
David H. Corkran, A.M. (Middlebury), Clergyman, Middlebury.
Leah Corkran, Middlebury.
Clarissa I. Coolidge, Teacher, Peru.
N. Grace Coolidge, Teacher, Greenfield, Mass.
Carrie M. Corson, Teacher, Lynn, Mass.
C. Beulah Cornell (ex-Middlebury), Teacher, Monkton.
George C. Cornell, Clergyman, Monkton.
Theron L. Culver, B.S. (Middlebury), Teacher, High School, Conway, Mass.

Effie N. Daunis, Middlebury.
Beatrice M. Day, East Middlebury.
Leslie E. Day, East Middlebury.
Ralph B. DeLano, A.B. (Middlebury), Teacher, High School, Winchester, Mass.
Ethel W. Devin, A.B. (Smith), Teacher, St. Mary's School, Concord, N. H.
Lou M. Dutton, A.B. (Middlebury), Teacher, Chelsea.
Arthur T. Ellison, Student, Farmington, N. H.
Genevieve Fellows, A.B. (Middlebury), Teacher, High School, Wells River.
Jessie T. Fenn, Middlebury, R. F. D. No. 6.
Mary M. Geran, Student, Holyoke, Mass.
Daisy E. Godfrey, Student, Brandon.
Harvey E. Goodell, Student, Readsboro.
Ruth Grosvenor, Teacher, Middlebury.
Carl D. Grupe, A.B. (Middlebury), Principal, High School, Chelsea.
H. Ray Hall, Student, Hardwick.
Howell K. Hallett, Student (Dartmouth), St. Louis, Mo.
Helen L. Hard (ex-Michigan), Teacher, High School, Detroit, Mich.
Carrie R. Harmon, Teacher, High School, Geneva, N. Y.
Woodburn Prescott Harris, A.B. (Middlebury), Principal, High School, Pittsford.
Rufus M. Hartill (ex-Adelphi), Teacher, Public School, Brooklyn, N. Y.
Lilian Haver, Teacher, High School, Bayonne, N. J.
Thelma G. Havens, A.B. (Middlebury), Teacher, High School, Springfield.
Perry Hayes, Student (Dartmouth), South Manchester, Conn.
Ruth Hesselgrave, Chatham, N. J.
Susie W. Hesselgrave, A.B. (Middlebury), Chatham, N. J.
Robert N. Hogsett, Student (Dartmouth), Cleveland, Ohio.
Roy J. Honeywell (ex-Union), Clergyman, Rensselaer, N. Y.
Florence E. Hooker, Teacher, Middlebury.
Edna Howard, A.B. (Michigan), Berea, Ky.
Roswell E. Hubbard, Student (Bowdoin), Hatfield, Mass.
Alice C. Humphrey (ex-Smith), Teacher, St. Mary's School, Concord, N. H.
Kathleen A. Hunt, A.B. (Middlebury), Teacher, High School, Westport, N. Y.
Ellen H. Kingsbury, A.B. (Mt. Holyoke), Teacher, Taunton, Mass.
Mabel V. Ladd, Teacher, Northfield.
Bernard A. Leonard, B.S. (Middlebury), Teacher, High School, Chehalis, Wash.
Cora G. McCrakan, Providence, R. I.
Elizabeth B. McFarland, Middlebury.
Alice K. MacGilton, Middlebury.
George McGregor, Clergyman, Newcastle-upon-Tyne, England.

Rachel A. Malcomson (Mich.), Teacher, Detroit, Mich.
Mabel A. Meade, Student, Middlebury.
Eleanor H. Means, A.B. (Smith), Middlebury.
William A. Miller, A.B. (Columbia), Superintendent of Schools, Matawan, N. J.
S. Frederic Monroe, A.B. (Amherst), Teacher, High School, Cos Cob, Conn.
Myrtle A. Mosier, A.B. (Middlebury), Preceptress, Montpelier Seminary, Montpelier.
Laura L. Newell, A.B. (Middlebury), Teacher, State Industrial School, Vergennes.
Elizabeth Novak, Middlebury.
Susan D. Parker, Middlebury.
Hazel Parmelee, Teacher, St. Albans.
Julia P. Parnell, Teacher, Springfield, Mass.
Annie E. Perkins, Student, Berwick, Me.
Duncan G. Porteous, Clergyman, East Burke.
Hobart B. Potter, Jr., Student, Newark, N. J.
James B. Ramage, Student (Dartmouth), Monroe Bridge, Mass.
Clinton S. Reynolds, A.B. (Middlebury), Teacher, Volkman School, Boston, Mass.
William Richmond, A.B. (Middlebury), Teacher, Troy Academy, Troy, N. Y.
Thomas M. Ross, Student, Northfield.
John E. Rourke, Student, Brooklyn, N. Y.
George H. Sanderson, A.B. (Yale), Teacher, High School, Moosup, Conn.
Harriet G. Sanderson, Moosup, Conn.
Lewis W. Sanford, Clergyman, Passumpsic.
Catharine Shea, Teacher, Middlebury.
Esther H. Shea, A.B. (Middlebury), Teacher, High School, Winooski.
Mary A. Shea, Student, Middlebury.
Michael F. Shea, Student, New London, Conn.
Margaret F. Sheldon, A.B. (Middlebury), Graduate Student, Middlebury.
Barbara H. Smith, A.B. (Middlebury), Teacher, High School, North Troy.
Anna M. Spaulding, Teacher, Hardwick.
Carrie E. Springstead, Teacher, Grammar School, Geneva, N. Y.
Lindley S. Squires, Rutland.
Florence B. Stetson, A.B. (Wellesley), Hanover, N. H.
Harry H. Stetson, Clergyman, Troy, N. H.
Lucy H. Stetson, Troy, N. H.
Jennie A. Stewart, Teacher, Randolph.
Linwood Taft (ex-Univ. of California), Superintendent of Schools, Woodstock.

Arthur C. Thomas, A.B. (Middlebury), Teacher, Taft's School, Watertown, Conn.
Paul D. Thompson, Student, Fitzwilliam Depot, N. H.
Roy H. Walch, A.B. (Middlebury), Principal, High School, Alton, N. H.
Agnes A. Warner, Middlebury.
Frances H. Warner, A.B. (Middlebury), Teacher, High School, Middlebury.
Clarence M. Webster, Student (Clark College), Hampton, Conn.
Ethel M. Wellington, Teacher, East Barre.
Elmer R. West, Student, Ticonderoga, N. Y.
Raymond C. Whitney, Student, Millbury, Mass.
Edna H. Wilder (ex-Middlebury), Teacher, Beeman Academy, New Haven.
Sophie Wilds, A.B. (Smith), Middlebury.
Dora M. Willson, Student, Lunenburg.
Ardelle Wright, Teacher, Vergennes.

SUMMARY

SUMMARY BY CLASSES

	Men	*Women*	*Total*
Graduate Students	4	7	11
Seniors	25	23	48
Juniors	37	36	73
Sophomores	47	41	88
Freshmen	67	51	118
Special Music	..	2	2
	180	160	340
Summer Session	45	75	120
Total			460
Counted twice			18
Net total			441

CLASSIFICATION BY COURSES

UNDERGRADUATES ONLY

Men	*Candidates for A.B.*	*Candidates for B.S.*
Seniors	11	14
Juniors	19	18
Sophomores	18	29
Freshmen	12	55
Women		
Seniors	23	0
Juniors	36	0
Sophomores	36	5
Freshmen	43	8
Total	198	129

GEOGRAPHICAL DISTRIBUTION

UNDERGRADUATES ONLY

	Men	*Women*	*Total*
Vermont	60	85	145
Massachusetts	39	26	65
New York	27	7	34
Connecticut	16	12	28
New Hampshire	13	14	27
New Jersey	17	2	19
Maine	0	3	3
Japan	1	1	2
Rhode Island	1	0	1
Pennsylvania	0	1	1
Ohio	1	0	1
Canada	1	0	1
	176	151	327

COLLEGE CALENDAR

1913

SEPTEMBER 18.	*Thursday,* 8.45 *a.m.* Beginning of first semester.
NOVEMBER 26 *to* DECEMBER 1.	*Wednesday to Monday.* Thanksgiving Recess.
DECEMBER 23 *to* JANUARY 5.	*Tuesday to Monday.* Christmas Recess.

1914.

JANUARY 23.	*Friday.* Winter Meeting of the Corporation in New York.
JANUARY 30 *to* FEBRUARY 7.	*Friday to Saturday.* Mid-year Examinations.
FEBRUARY 7.	*Saturday.* End of first semester.
FEBRUARY 9.	*Monday.* Beginning of second semester.
FEBRUARY 13.	*Friday.* Mid-year Meeting of the Phi Beta Kappa Society.
FEBRUARY 22.	*Sunday.* Washington's Birthday.
APRIL 8-15.	*Wednesday to Wednesday.* Spring Recess.
MAY 7-9.	*Thursday to Saturday.* Junior Week.
MAY 30.	*Saturday.* Memorial Day.
JUNE 12-19.	*Friday to Friday.* Final Examinations.
JUNE 21.	*Sunday.* Commencement Sunday. 10.45 *a.m.* Baccalaureate Sermon. 8.00 *p.m.* Anniversary of the Christian Associations.
JUNE 22.	*Monday.* Class Day. 10.30 *a.m.* Class Day Exercises. 3.00 *p.m.* Annual Meeting of the Phi Beta Kappa Society. 8.00 *p.m.* Parker and Merrill Prize Speaking. 8.00 *p.m.* Annual Meeting of the Corporation.
JUNE 23.	*Tuesday.* Alumni Day. 8.00 *p.m.* Commencement Concert.

JUNE 24.	*Wednesday*. Commencement Day. 9.00 *a.m.* Meeting of the Alumni in the Chapel. 10.30 *a.m.* Commencement Exercises. 1.00 *p.m.* Commencement Dinner. 7.30 *to* 9.00 *p.m.* President's Reception.
JUNE 30 *to* AUGUST 7.	Summer Session.
SEPTEMBER 24.	*Thursday*, 8.45 *a.m.* Beginning of first semester.
NOVEMBER 26.	Thanksgiving Day.
DECEMBER 19 *to* JANUARY 4.	*Saturday to Monday*. Christmas Recess.
1915.	
JANUARY 29 *to* FEBRUARY 6.	*Friday to Saturday*. Mid-year Examinations.
FEBRUARY 6.	*Saturday*. End of first semester.
FEBRUARY 8.	*Monday*. Beginning of second semester.

NOTE: All recess dates are inclusive.

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